

SECTION II

SUBJECT (M-Z)

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VOLUME 1 NUMBERS 1-24

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VOLUME 1 NUMBERS 1-24 Scientific and Technical



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January-December 1963

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TABLE OF CONTENTS

PURCHASE OF STAR. The semimonthly issued and the standardy index fields like VED

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Central and South American countries	Price per single copy \$1.50, domestic, 25¢.
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Accession/Report Number Index.	D-1
SECTION IV	Published by an vocas suntrepe to redesen I
Personal Author Index	United State-Socrepage
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Introduction

This publication contains the annual cumulation of the Subject, Corporate Source, Personal Author, Report Number and Accession Number Indexes for Scientific and Technical Aerospace Reports (STAR), Volume 1, Numbers 1 through 24. The accession number is the identification given by NASA to each item indexed in the year indicated (e.g., N63-12345).

Mee of the Series Index

The annual index is divided into four separately bound sections. Sections I and II contain the Subject Index, Section III contains the Corporate Source, Report/Accession Number, and Accession/Report Number Indexes, and Section IV contains the Personal Author Index.

In using the indexes, it is necessary to note both the accession number and the issue and category number by which a desired citation may be found. Introductory notes at the beginning of each index describe their characteristics and use in greater detail.

The annual index for STAR, Volume 1, Numbers 1-24 supercedes all previous indexes in this volume year.

Information regarding the publication and availability of Scientific and Technical Aerospace Reports may be obtained from the National Aeronautics and Space Administration, Office of Scientific and Technical Information, Washington, D.C., 20546.

Development of the Subject Index

Each item announced in the abstract sections of STAR was indexed with an average of five subject terms. Furthermore, the item was represented in the individual index listings by an abbreviated notation of its content. This "notation of content," composed of the principal subjects of the report, appeared under each of the relevant subject terms in the STAR Index.

The annual index to STAR issues seeks to satisfy the following main objectives: (a) simplicity of use, (b) high level of information retrieval from both the specific subject and the general subject approach, and (c) a control of the physical size of the index as well as the number of items posted under any given term. The first two objectives were achieved by the inclusion of cross references defining relationships among terms of the index. By employment of the "see," "see also," and "confer" instructions indicated herein, the searcher is directed neither to "blind" references (indexing points to which no items are posted) nor to repetitious information in the index.

Adherence to these objectives, and consideration of the different types of searches to which the index is put, have led to the increase or decrease of postings under many subject terms and, in some instances, to the removal of subject terms from active use in this cumulation. Items originally indexed under lightly posted specific terms may have been transferred to more general terms, provided the total number of postings under the latter did not exceed eighty items. As a rule, the specific terms so affected were composite, two-word terms with less than eight postings; these items were transferred to those more general terms which share with the specific terms a "concept-word."

The vocabulary of this index thus differs from the earlier STAR vocabularies in the absence of a number of lightly posted, composite terms. Retained, however, were composite terms containing proper names, or names of systems (e.g. BLACK BRANT III ROCKET), regardless of the number of their postings. When required, a "see also" cross reference has been provided.

Subject terms, to be used in future indexes published by NASA, will continue to reflect the varying contents of the items processed and are subject to further modification to meet the special requirements of subsequent cumulative indexes.

Use of the Subject Index

When using this index, the searcher may approach his question via a specific concept. If the specific (composite) term does not appear in its alphabetical place in the Index, the searcher should always proceed to the more general term(s) which contains a concept-word of the specific term. For example, if he does not find the specific, composite term ABSORPTION SPECTRUM, he should search under SPECTRUM or under ABSORPTION, on the assumption that documents on "absorption spectrum," if any, were transferred there by the editorial technique previously described.

The Annual Subject Index displays three kinds of cross references: "see" (S), "see also" (SA), and "confer" (CF).

- 1. The "see" cross reference is used to relate general concepts, which are too vague to be meaningful indexing terms, to the more specific terms used in the Index. For example:
 - DEVICE
 - S CONTROL DEVICE
 - S INFLATABLE DEVICE
 - S SAMPLING DEVICE
 - S SCANNING DEVICE

The use of the "inactive" general concept (DEVICE) in association with the "see" reference provides a list of all the specific terms (CONTROL DEVICE, etc.) that are used in the index and related generically to the broad concept.

2. The "see also" cross reference refers from general to specific terms when the postings from the latter are not repeated under the general term. For example, the entry in the index.

HEATING

SA AERODYNAMIC HEATING

informs the searcher that the postings under AERODYNAMIC HEATING are different from the postings under HEATING.

 The "confer" cross reference relates two conceptually associated terms; for example, PLASMA

CF MAGNETOHYDRODYNAMICS

The postings under such terms differ, but they are related by the similarity of the subject matter.

As different postings accumulate under the subject headings, the headings become the entry points for the retrieval of relatively broad classes of information. On the other hand, each notation of content under a heading may be regarded as a modifier of that heading which provides the specificity necessary to identify a desired report. Thus, the user can vary the specificity of his search by relating the subject heading with other subjects indicated by the notation of content.

Office of Scientific and Technical Information



SUBJECT INDEX

SCIENTIFIC TECHNICAL AEROSPACE REPORTS VOLUME 1 NUMBERS 1-24

Listing of Reports by Subject

A Notation of Content, rather than the title of the document, appears under each subject heading; it is listed under several subject headings to provide multiple access to the subject content. The NASA accession number is located under and to the right of the Notation of Contents (e.g., NG3-12345), followed unser and to the right of the Notation of Contents (e.g., N63-12345), followed by a category number (e.g., 13-02) for locating the abstract in the first section. The first two digits of the category number identify the issue number of Scien-tific and Technical Aerospace Reports, and the two digits following the hyphen identify the category as listed in the Table of Contents.

H-57 ROCKET ENGINE FLIGHT DATA HANDLING AND ANALYSIS PLAN FOR MEAPON SYSTEM 133A ROCKET MOTOR M57 MINUTEMAN STAGE III MTO-198-44 N63-22147 22-04

MACH NUMBER

REYNOLDS NUMBER CALCULATION AS FUNCTION OF MACH NUMBER, STAGMATION PRESSURE AND STAGMATION TEMPERATURE - TABLES 10-20

AERODYNAMIC CHARACTERISTICS OF CANOPY PARAGLIDER FOR INSTRUMENT RECOVERY - MACH NUMBER, ANGLE OF ATTACK, SIDESLIP ANGLE NASA-TN-D-1776 N63-15235 11-03

MACH NUMBER MEASUREMENTS IN HIGH VELOCITY WIND 21-15 TUNNELS N63-20807

MACH-ZEHNDER INTERFEROMETER

TWO METER MACH-ZEHNDER INTERFEROMETER FOR PLASMA DENSITY MEASUREMENTS LA-2940 N63-22377 23-24

- AUTOMATON FATIGUE TESTING MACHINE
- GROUND EFFECT MACHINE
- READING MACHINE
- SEQUENTIAL MACHINE TEACHING MACHINE

CF FORTRAN

METHOD FOR AUTOMATIC CONSTRUCTION OF SYNTAX DIRECTED COMPILERS N63-12814 06-20

MACHINE LANGUAGE AND ORGANIZATION FOR EXPERIMENTAL DIGITAL DATA SYSTEM AFCRL-62-964 N63-N63-13227 07-20

ALGORITHMS FOR DECLARATIVE COMPUTER ADDRESS -DESIGN OF LANGUAGE ELEMENTS FOR DATA SYSTEMS RECURSIVE FUNCTIONS EUR-192.D, E 08-20

ALGOL 60 SYNTAX CHECKER FOR IBM 7090 COMPUTER N63-13975 09-20 BOUNDED ALGORITHMIC LANGUAGES IN PROGRAMMING 12-20

A. I da er aruntmaktan Gesaksoner belassar

COMPUTER PROGRAMMING USING FORAST LANGUAGE 14-20

PARTIAL ORDERING OF CHANNELS AND COMPARISON OF DIGITAL DATA COMMUNICATION SYSTEMS WITH DIFFERENT TRANSMISSION ALPHABETS N63-17938 16-0

NORMAL AND FACTOR MONOIDS OF COMMUTATIVE MACHINES

SET THEORY IN ALGORITHMIC LANGUAGES - COMPUTER LANGUAGE SDC-TH-738-003-00 NA3-19508

MACHINE LEARNING BILINEAR PATTERN CLASSIFIERS PIBMRI-996-62

N63-11633 04-09

MACHINE RECOGNITION
PATTERN RECOGNITION AND DETECTION BY MACHINE PIBMRI-1130-63 N63-21404

MACHINE TOOL

COMPARISONS OF ELECTRON MICROSCOPIC METHOD WITH OPTICAL MEASUREMENT & HARDNESS TESTING MACHINES SEARCH FOR DIAMOND SUBSTITUTES 8M-RI-6181 N63-13459 08-

MACHINING

CF MATERIAL REMOVAL METAL MACHINING PROCESSES - ULTRASOUND, ELECTRON BEAM, AND HYDROGROSION FTD-TT-62-1357/1 N63-12821 06-

PRODUCTION OF FLUID AMPLIFIERS BY OPTICAL FABRICATION

OPTIFORM, OPTICAL MACHINING OF PURE FLUID SYSTEMS IN PLASTICS - FLUID AMPLIFIER

08-11 N63-13393

MACHINING OF REFRACTORY METALS - TUNGSTEN, TANTALUM-TUNGSTEN, MOLYBDENUM-TITAMIUM ALLOYS AND N63-14882

ASO-TR-7-532A/V/ MACHINING OF REFRACTORY MATERIAL - TUNGSTEN, MOLYBDENUM, NIOBIUM, PYROCERAM AND ALLOYS ASD-TR-7-532A/VI/

MACHINING OF REFRACTORY MATERIAL, TUNGSTEN, NIOBIUM AND ALLOYS, RESIN, ZIRCONIUM OXIDE AND ZIRCONIUM AND ALUMINUM OXIDE COATINGS ASD-TR-7-532A/VII/ N63-14884 1

MACHINING OF REFRACTORY MATERIALS, HIGH TEMPERATURE ALLOYS, HIGH STRENGTH STEEL, AND TITANIUM AND MOLYBDENUM SHEETS ASD-TR-7-532A/IX/

N63-14886 11-18

ELECTROLYTIC MACHINING PROCESS FOR APPLICATION TO 4140 ALLOY STEEL N63-21869 22-17

MACROSCOPIC EQUATIONS GOVERNING INTERACTION OF ELECTROMAGNETIC WAVES WITH NONUNIFORM PLASMA FLOW (wayumarahm)pucasia N63-12124 - 05-24

MAGNA	ATTON TH WACHA	710
RARE-EARTH ELEMENT DIFFERENTI	ATION IN MAGMA	TOV
PROCESS - ALKALINE INTRUSIONS NASA-TT-F-179	N63-22602	23-12
AGNESIUM		
KINETICS OF HIGH TEMPERATURE MAGNESIUM POWDER AND OXYGEN		EN
PA-TR-3013	N63-10425	01-26
CORROSION PROTECTION OF MAGNE: CCL-134	SIUM N63-11801	04-07
	A series and and	
DISLOCATION MOBILITY AND INTER PURITY MAGNESIUM		
AROD-3394-1	N63-12315	05-18
METHODS FOR PREVENTING GALVAN'S BETWEEN MAGNESIUM AND STEEL	IC CELL CORROS	ION
CCL-136	N63-12373	06-07
EFFECT OF INDIUM ON SOLID SOLI	UBILITY OF CAL	a MUID
SILICON IN MAGNESIUM BM-RI-6170	N63-12719	06-18
DEFORMABLE ALUMINUM ALLOYS - I	HOT CRACK FORM	ATION.
QUENCHING, INGOT CASTING, IRON MANGANESE, BERYLLIUM, AND MAGN	N. SILICON, TI	TANIUM,
MANGANESE, BERYLLIUM, AND MAGF FTD-TT-62-1272/16264	NESTUM N63-13615	08-18
HOT CRACKING IN V95 TYPE ALUM		CRACK
RESISTANCE DURING INGOT CASTLE	NG - MANGANESE	IRON.
RESISTANCE DURING INGOT CASTIN	OF THE ALLOY	S
	N63-13617	08-18
MAGNESIUM PRIMARY CELLS - PERF	FORMANCE AND N63-14162	09-06
		09-00
TEMPERATURE EFFECT ON MICROYIE PRESTRAINED MAGNESIUM SINGLE	ELD POINTS IN	
	N63-14204	09-18
THEORY OF DISLOCATION HYSTERES TO DAMPING MEASUREMENTS IN MAG	SIS WITH APPLIE	CATION
TO DAMPING MEASUREMENTS IN MAG	N63-16704	14-18
MOLYBDENUM FROM MOLYBDENUM COM	POUNTS BY RED	ICTION
WITH MAGNESIUM		
8M-RI-5934	N63-17886	
SPECTROSCOPY OF MAGNESIUM, ELE OF URANIUM OXIDE AND ELECTRON CHEMICAL BONDING OF URANIUM &	MICROSCOPE STI	JDY OF
CHEMICAL BONDING OF URANIUM &	ALUMINUM-SILIC	ON
MCW-1480	N63-18073	16-07
ELASTIC PROPERTIES OF POLYCRYS	TALLINE MAGNES	-MUI
ALUMINATE SPINEL AS FUNCTION O AROD-2891-7	MA3-18749	JRE 17-25
MAGNESIUM METABOLISM IN RATS - IN VIVO AND IN VITRO	TRANSPORT MEG	HANISM
AAL-TDR-62-41	N63-21396	22-16
SHESTUM ALLOY		
VIBRATION DAMPING CAPACITY OF ALLOYS	VARIOUS MAGNES	MUIC
BM-RI-6116	N63-10410	01-18
STRAIN HEASUREMENTS ON ALUMINU		SIUM
ALLOY PLATES LOADED IN TENSION RAE-TRANS-996	N63-12112	05-33
EQUILIBRIUM DISTRIBUTION OF UR	ANTIM AND CERT	1104
BETWEEN LIQUID BISMUTH-MAGNESI	UM ALLOY & TER	NARY
EUTECTIC CHLORIDE MIXTURE BNL-639/T-2010/	N63-12333	05-07
COMPOUNDS AND ALLOYS OF MAGNES LEAD AND GERMANIUM AS SEMICOND	UCTORS IN	ER
THERMOELECTRIC POWER GENERATIO	N N63-13507	
		20 23
FLASH RADIOGRAPHIC MEASUREMENT	UF THE SHOCK	

COMPRESSIBILITY OF MAGNESIUM ALLOY, LUCITE, AND

STABILITY OF MAGNESIUM-LITHIUM BASE ALLOY AT HIGH TEMPERATURES DURING TRANSITION PHASE

POLYETHYLENE

AFSWC-TDR-62-134

FA-R-1623	N63-15279	12-1
EFFECTS OF SILVER ON AGING OF AL ALUMINUM-COPPER, ALUMINUM-MAGNES COPPER-MAGNESIUM ALLOYS	IUM AND ALUM	INUM-
ARL/MET-45	N63-15732	12-1
FLOW STRESS, TRANSITION TEMPERAT BOUNDARY HARDENING OF SILVER-MAG WADD-TR-60-184, PT. IV	URE, AND GRA NESIUM ALLOY N63-16667	IN S 14-1
MATERIAL PROPERTY HANDBOOK - MAG TITANIUM ALLOYS FOR STRUCTURAL U	NESIUM, NICK SE IN AIRCRA N63-18835	EL AN FT 18-1
TOUGHNESS AND PLASTIC PROPERTIES MAGNESIUM ALLOYS IN WELDED CONDI	TION .	19-1
The second secon	TAR IT SOFT SOL	
SILVER ADDITION EFFECT ON AGING MAGNESIUM ALLOYS	Aug Tree Told to	
ARL/MET-49	N63-19908	19-1
MULTIMETAL PROTECTIVE COATING PRI COMPOSITE STEEL, MAGNESIUM AND AI RIA-63-1651	DCESS FOR LUMINUM STRU N63-19920	CTURE 19-1
CORROSION OF HIGH STRENGTH ALUMINALUMINUM-ZINC-MAGNESIUM ALLOYS	NUM-COPPER A	
ARL/MET-47	N63-19933	19-1
PLASTIC ANISOTROPY OF MAGNESIUM ROLLING AND TRANSVERSE DIRECTION WAL-TR-834.12/2-2	ALLOY SHEETS TENSILE STR N63-20026	- ENGTH 19-1
TERNARY SYSTEM OF ALUMINUM-MAGNE	SIUN-LITHIUM	-
TERNARY SYSTEM OF ALUMINUM-MAGNE: PHASE DIAGRAMS OF CROSS-SECTIONS RSIC-32	N63-20266	20-1
ANNEALING RESPONSE OF INTERNALLY MAGNESIUM ALLOYS	OXIDIZED SI	LVER-
UCRL-10816	N63-20542	20-1
STRUCTURE OF MAGNESIUM-THORIUM-Z ALLOY - EFFECT OF TEMPERATURE, O	XIDATION AND	
HYDROGENATION	N63-20695	21-1
INFLUENCE OF WELDING VARIABLES OF AND PLASTICITY OF WELDED ALUMINUM PLATE		
CREEP ANALYSIS OF MAGNESIUM ALLO		IAL 23-3
AXIAL STRESS FATIGUE STRENGTH IN MAGNESIUM-SILICON ALLOY	ALUMINUM- N63-22749	23-3
MAGNESIUM CELL MAGNESIUM PRIMARY CELLS - PERFORI EFFICIENCY	MANCE AND N63-14162	09-0
MAGNESIUM COMPOUND		
CF TALC EFFECT OF MAGNETIC FIELD ON THERP PROPERTIES OF MAGNESIUM STANNIDE	AL & ELECTR	ICAL
PROPERTIES OF MAGNESIUM STANNIDE ANTIMONIDE	6 INDIUM N63-10315	01-2
HEATS AND FREE ENERGIES OF FORMAT TUNGSTATE, CALCIUM MOLYBOATE, AND MOLYBOATE	TION OF CALC	TUM
BM-RI-6143	N63-11332	03-2
COMPOUNDS AND ALLOYS OF MAGNESIUM LEAD AND GERMANIUM AS SEMICONDUCT THERMOELECTRIC POWER GENERATION	TIN, COPP	ER,
TCREC-TR-62-112	N63-13507	08-2
ATOMIC MOTIONS ON THINNING OF ORI THINNED STRUCTURE OF INTERMETALLI CADMIUM COMPOUND	DERED ALLOY	-
ASD-TDR-63-188	N63-18792	18-1

N63-20026 19-18

19-18

KCCN

T

UM COMPOUND

MAGNESIUM STANNIDE SEMICONDUCTOR - PHOTON ENERGY ABSORPTION, HALL COEFFICIENT, AND OTHER ELECTRIC PROPERTIES DS-114 N63-20298

ULTRAVIOLET SPECTRUM OF MAGNESIUM COMPOUNDS -MOLECULAR STRUCTURE OF HYDRIDE & DEUTERIDE

08-33

N63-13522

D 8

8

8

5

18

18

18

18

18 TH 14 -18

-33 -33

-06

L

-23

-25

3-18 C 0-18

N63-21746 22-23 YIELDS MONTICELLITE, PERICLASE & CARRON DIORIE	
MGHESIUM MITRATE	7-07
CHRONIUM-51 MUCLEAR ORIENTATION IN CERIUM MAGNESIUM NITRATE SINGLE CRYSTALS N63-19810 19-25 N63-19810 19-25 N63-19810 19-25	17-19
MIE SCATTERING AND ABSORPTION OF ELECTROMAGNET	TIC.
ELASTIC PROPERTIES OF SINGLE CRYSTAL MAGNESIA AROO-2091-4 ROS-11202 03-10 RADIATION BY ALUMINUM AND MAGNESIUM OXIDES SSO-TOR-62-127, VOL. VI	10-25
THERMAL EXPANSION OF CERAMIC OXIDES TO 2200-DEG C JPL-TR-32-297 N63-11308 03-19 POLYCRYSTALLINE MAGNESIUM OXIDE AROD-2884-1 N63-19404	a.
THERMAL EXPANSION OF MAGNESIUM OXIDE MG3-11336 03-18 STRENGTH OF ALUMINUM OXIDE AND MAGNESIUM DXIDE	E AS
FORMATION AND STRENGTH OF MAGNESIA MHISKERS NO3-11582 04-33 RAD-TR-63-32 NO3-19966 1	19-19
PROCESSING EFFECTS ON THE STRENGTH AND RICRO- NATRIX AND COMPOSITE NATERIALS OF ZIRCOWING DI	HIDE.
STRUCTURE OF CERANICS MADE FROM PRESSED SINTERABLE MAGNESIA PONDERS MAGNESIA PONDERS MASI-TOR-62-700 M63-12406 M63-12406 M63-20259 M63-20259 M63-20259	
FILD CATOGERIC MADEET MAS-23287 24-10	
THERMAL DIFFUSIVITY AND HEAT CAPACITY AT LOW MAGNESIUM OXIDE INSULATOR - ELECTRIC AND TEMPERATURES OF ALUMINUM ALLOYS AND MAGNESIUM ELECTRONIC PROPERTIES 05-125 05-125	
USMRDL-TR-599 N63-12490 06-18 CLEAVAGE SURFACE EMERGY OF RAGMESIUM DICIDE	
NEUTRON AND ULTRAVIOLET IRRADIATION ON CATALYTIC ACTIVITY OF MAGNESIUM OXIDE N63-13214 07-07	AS .
ISOTROPIC ELASTIC MODULUS OF MAGMESIUM OXIDE AT MEASURED AND COMPARED WITH CORUMDUM AS HIGH	1423
THEORETICAL DENSITY AROD-2891-5 N63-13437 00-33 TEMPERATURE HEAT CONTENT CHECKING APPARATUS BR-RI-6295 N63-21697	22-19
DISTRIBUTION OF CONCENTRATION, MASS FLOW AND PROPERTIES OF PURE OXIDE POWDERS OF ALUMINUM, VELOCITY OF SOLID PARTICLES /MAGNESIUM OXIDE AND BERYLLIUM, AND MAGNESIUM IN DENSE TRANSLUCENT SSD-TDR-63-191 M63-23662 2	
ILL-9-P N63-13918 09-07 SAMAND GRIEDINGS AREA SO RELYSAMA DETRINOS	
STUDY OF SINGLE-CRYSTAL MAGNESIUM OXIDE AT ELEVATED TEMPERATURES - STRUCTURAL CHANGE C-13 M63-13976 09-23 M63-21797	22-09
ROLE OF GRAIN BOUNDARY IN DEFORMATION OF MAGNESIUM MAGNET	
OXIDE CERAMICS - CREEP ANALYSIS SA ELECTROMAGNET ASO-TDR-62-225 N63-15422 12-19 SA SUPERMAGNET	HAGNE
NEASUREMENT OF OPTICAL CONSTANTS OF MAGNESIUM COOLING OF AN ANTIFERROMAGNET BY ADIABATIC	M/03
OXIDE AND CALCIUM TUNGSTATE AFCRL-63-454 M63-15026 13-25	J2-23
MICROSTRUCTURE TESTING OF POLYCRYSTALLINE ALUNINUM STUDIES - OCEAN RESEARCH FACILITY - NATERIALS	
AND MACNESIUM OXIDES RESEARCH R63-10738 (R63-10738 R63-10738 RESEARCH	
MICROSTRUCTURE OF POLYCRYSTALLINE REFRACTORY PERMAMENT MAGMETS AS PRECISION INSTRUMENT ELEI	
OXIDES - ALUMINUM AND MAGMESIUM OXIDES RAO-SR-63-29 N63-16177 13-18 A HIGH PERFORMANCE DC MAGMET UTILIZING AXIAL	
IN COOLED DISKS TOUCHOO AN HOLY NO FOLKEND DITEND	03-25
MICROSPHERES COATED WITH OXIDES OF ALUMINUM.	13-23
BERYLLIUM OR MAGNESIUM M63-16387 14-07 BENDING-MAGNET AND QUADRUPOLE ABERRATIONS FOR PARAXIAL RAYS	3721
SINTERING AND SINGLE CRYSTAL PRODUCTION OF	33-23
ALUMINUM OXIDE AND MAGNESIUM OXIDE POMDERS - SOLID STATE REACTIONS DESIGN OF MAGNETIC SYSTEMS FOR SECONDARY BEAMS ACCELERATORS	S IN
ASO-TOR-62-732 40 Mt 3.01 MAG 01 N63-173040 15-18 PPAD-459-F N63-12459	06-23
MECHANICAL PROPERTIES AND METALLURGICAL CHARACTERISTICS OF CHRONIUM AND MAGNESIUM OXIDE COMPOSITE INHOMOGENEOUS DEFLECTING MAGNETS FOR USE IN MAGNETIC ANALYSIS OF ATOMIC AND MOLECULAR BEAU UCRL-10526 MAS-12942	
MASA-TN-0-1785 N63-17340 15-18	A.W
TENSILE STRENGTH OF MAGMESIUM DIDE N63-10000 16-19 RESULTS OF SURVEY ON PROPOSED LABORATORY USES SUPERCONDUCTING MAGMETS N63-14360 1	
POLYCRYSTALLINE MAGNESIUM OXIDE - DISLOCATIONS AND WINDOWS, MAGNETS, SECONDARY EMISSION FROM TUNK	
TENSILE STRENGTH HR-63-252 N63-18083 16-19 SURFACE BORBARDMENT, CRYSTAL FIELDS, GASEDUS I N63-14414	MASER
	E-GRO. A.
CHRONIUM-MAGNESIA COMPOSITES - STRENGTH AND DUCTILITY OF ALLOYS N63-18190 16-18 HAGNET POWER SUPPLY AND CONTROL SYSTEM FOR MAS- SPECTROMETRY Y-1614	你 他生。

MODAL RESPONSE IN COMPLEX PLANE OF PROPAGATION

G

U

CI

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PR IN.

DI

05-12

N63-11783 04-12

N63-12060

CONSTANT IN RECTANGULAR GUIDE WITH TRANSVERSES MAGNETIZED LOSSLESS FERRITE N63-15066	LY 11-09
CONTROLLED THERMONUCLEAR FUSION FOR SPACECRAFT PROPULSION — USE OF DEUTERIUM-HELIUM 3 AS READ FUEL CONTAINED BY SUPERCONDUCTING MAGNETS	TOR
M63-15075	11-27
SUPERCONDUCTING MAGNETS LNF-63/26 N63-16243	3-25
DESIGN PRINCIPLES OF SUPERCONDUCTING FRICTION MAGNETIC BEARINGS N63-17827	ESS 16-17
SUPERCONDUCTING MAGNET APPLICATION TO MAGNETOHYDRODYNAMICS - MODELS, COOLING EQUIPME AND GENERATOR ANALYSIS N63-21804	NT 22-23
HIGH MAGNETIC FIELD STRENGTH SUPERCONDUCTING CAVCO-EVERETT RES. REPT160 N63-22846	
DESIGN OF TWO REGION SOLENDIDS FOR HIGHER MAGN EFFICIENCY & REDUCTION OF STRESS LEVEL - HIGH FIELD CRYOGENIC MAGNET N63-23287 2	ETIC 4-09
300,000 GAUSS THO REGION ALUMINUM SOLENDID CRYOGENIC MAGNET FOR INTERMITTENT OPERATION NO.3-23288 2	4-09
MAGNETIC ANALYSIS	
INHOMOGENEOUS DEFLECTING MAGNETS FOR USE IN MAGNETIC ANALYSIS OF ATOMIC AND MOLECULAR BEAP UCRL-10526 N63-12942 0	
MAGNETIC LOSS IN GARNET FERROMAGNETS - MAGNETOMETER, ELECTRIC & MAGNETIC PROPERTIES C VANADIUM OXIDES AND TITANIUM OXIDES	
AFCRL-62-553 N63-14777 1	1-23
MAGNETIC ANALYZER FOR PLASMA DIFFUSION CHAMBER LNF-63/4 N63-16946 1	
MAGNETIC CONTROL TRAJECTORY ANALYSIS OF ELECTRON BEAM WITH MAGN AND ELECTRONIC CONTROLLED COMPRESSION	ETIC
*There's 124.0	6-09
MAGNETIC EFFECT EFFECT OF MAGNETIC FIELD ON THERMAL & ELECTRIC PROPERTIES OF MAGNESIUM STANNIDE & INDIUM ANTIMONIDE N63-10315	
TRANSVERSE MAGNETIC FIELD EFFECT ON EQUILIBRIU	
OF CURRENT CARRYING TOROIDAL PLASMA MATT-155 N63-11708 O	
EFFECT OF VERY STRONG MAGNETIC FIELDS & MAGNET	1C-
FREE ENVIRONMENTS ON MAN & ANIMALS N63-12825 0	6-16
MAGNETIC EFFECT ON FLOW OF CONDUCTING GAS IN F	LANE
TUBE WITH HEAT TRANSFER THROUGH WALLS FTD-TT-62-333/16264 N63-15182 1	1-11
EFFECT OF HELICAL FIELD ON PLASMA CONFINEMENT	IN
MODEL C STELLARATOR MATT-171 N63-16958 1	4-24
AXIAL FIELD EFFECT IN MAGNETICALLY DRIVEN SHOOTUBE	K
	5-11
EFFECT OF MAGNETIC FIELD ON THO-DIMENSIONAL FL OF INCOMPRESSIBLE, ELECTRICALLY CONDUCTING FLU NASA-CR-50653 N63-18392 1	OWS 10 7-11
KUTTA-JOUKOWSKI CONDITION IN MAGNETOHYDRO- DYNAMICS - MAGNETIC FIELD EFFECT ON LIFTING FO ON FLAT PLATE IN CONDUCTING FLUID MRC-399 N63-19013 1	11
EFFECT OF MAGNETIC FIELD ON FERROMAGNETIC META	
NONEQUILIBRIUM IONIZATION EFFECTS ON FLOW OF	535
	0-24
EFFECT OF MAGNETIC FIELD ON BIOLOGICAL ORGANIS	MS -

TABLES MANTACELLESS PERSONAIS A CAMADO DESCRIPTION

	SUBJECT INDEX		
AEROSPACE MEDICIN	4E	N63-20572	20-16
MAGNETIC ELEMENT	STATISTICS BEING		1013
MAGNETIC ELEMENTS	IN CODE-TYPE	TELEMETRY SYS N63-14017	TEMS 09-09
MAGNETIC FIELD SA ELECTRIC FIELD SA GEOMAGNETIC FIEL SA INTERPLANETARY	AAGNETIC FIELD	10110 MOE 1189000 9110 1005-0	
SA INTERSTELLAR MAG CF ELECTROMAGNETISM EXTREMELY LOW FRE	A CONTRACTOR OF THE STATE OF TH	FIFLOS - DI	URNAL
VARIATION AFCRL-62-734	A212.18048	N63-10147	
GENERATION AND EF		STATIC FIELD	s
DURING AURORAL DI RAD-TM-62-88	STURBANCE	M63-10189	01-12
DEFORMATION OF A	TRAVELING MAGNE	ETIC FIELD UN	DER
THE SURFACE OF A FTD-TT-62-981/162	CONDUCTIVE MEDI	N63-10302	01-23
ELECTROMAGNETIC W		IN PLASMA A	CROSS
FTD-TT-62-1187/16	264	N63-10331	01-24
ISOTHERMAL ACCELE PLASMA FLOW IN EX ELECTRICAL FIELDS	TERNAL TRANSVER	E-DIMENSIONAL RSE MAGNETIC	AND
FTD-TT-62-1186/16	264	N63-10347	01-24
USE OF MAGNETICAL STELLARATOR	LY COMPRESSED F		DRA
MATT-133		N63-10361	01-24
MAGNETIC FIELD OF NASA-TN-D-1447	A MODEL RADIAT	N63-10369	01-28
INSTABILITIES IN TDR-169/3210-02/T		TED INTO A BZ N63-10656	FIELD 02-24
MAGNETIC FIELD ME USNRDL-TR-559	ASUREMENTS WITH	HALL GENERA N63-10658	TORS 02-23
MAGNETOHYDRODYNAM PLATE IN THE PRES	IC FLOW PAST A		
FIELD DCAS-TDR-62-88		N63-10706	02-24
MAGNETIC FIELD OF		A AND ITS CE	NTRAL
NASA-TT-F-112	THE WATER	N63-10769	02-05
THE BOUNDARY BETW	HEEN A MAGNETIC	FIELD AND A N63-10897	PLASMA 02-12
DEVIATION FROM ST FIELD IN OUTER SO		N63-11527	03-05
PLANT GROWTH AND GRAVITATIONAL, MA	DEVELOPMENT IN GNETIC, AND ELE	COMPENSATED ECTRICAL FIEL N63-11540	DS 03-16
MAGNETIC FIELD IN INDIUM ANTIMONY - AROD-2238-5	- IMPACT IDNIZAT		FFECT 04-25
MOTION OF CHARGED	PARTICLE IN DI	POLE MAGNETI N63-11584	04-20

MAGNETIC FIELD OF MODEL PROTON BELT

ADIABATIC APPROXIMATION FOR DYNAMICS OF A PARTICLE IN THE MAGNETIC FIELD OF A TAPERED SOLENOID
SLAC-4 N63-11869 04-23

MAGNETIC FIELD OF RADIATION BELT AND DISTORTION OF GEOMAGNETIC FIELD N63-11951 05-12

MAGNETIC FIELD CONFIGURATION & SELF-CONSISTENT DISTRIBUTION OF ELECTRONS IN ASTRON MACHINE

MAGNETIC FIELD OF THE MOON AND PLANETS RM-3140-NASA N63-12040 05-29

E-LAYER UCRL-6942

MAGNETIC FIELDS IN DIAGNOSTIC METHODS FOR IONIZED GASES - PROBING PLASMA SHEET DURING REENTRY TOR-169/3153/TR-1 05-15

ELECTRON ENERGY AND IONIZATION RATES IN HYDROGEN WITH CROSSED ELECTRIC AND STRONG MAGNETIC FIELDS, INCLUDING INELASTIC COLLISIONS UCRL-10366 N63-12419 06-23

TORQUE INDUCED BY MAGNETIC FIELD ON ROTATING
CYLINDERS, CONES AND CONE FRUSTUMS
NASA-TR-R-129
N63-12596
06-29

IONIZED GASES AT LOW DENSITY IN AXISYMMETRIC
MACMETIC FIELDS
M-3429-MASA
N63-12699 06-24

ROLE OF TURBULENCE IN STAR FORMATION IN ELLIPTICAL GALAXIES N63-12747 06-29

INVESTIGATION BY KINETIC DESCRIPTION OF ELECTRO-MAGNETIC ABSORPTION COEFFICIENT IN QUANTUM PLASMA IN MAGNETIC FIELD MATT-163 N63-12792 06-24

EFFECT OF VERY STRONG MAGNETIC FIELDS & MAGNETIC-FREE ENVIRONMENTS ON MAN & ANIMALS

DIRECTION OF VARIABLE ELECTRIC & MAGNETIC FIELDS AT AUSTIN, TEXAS & TIME PHASE RELATION FOR MARROW BAND FREQUENCIES N63-12905 07-12

N63-12825 06-16

N63-12949 07-24

BAND FREQUENCIES N63-12905 07-12
MAGNETIC FIELD OF LINE CURRENT IN TRANSVERSE
RAREFIED PLASMA STREAM

FLOW OF LOW VISCOSITY COMDUCTING FLUID IN A

NASA-TN-D-1551

5

5

6

5

0

2

E

3

F

9

2

MAGNETIC FIELD JPL-TR-32-351 N63-13080 07-11

ACTIVE RADIATION SHIELDING OF SPACECRAFT AND DISCUSSIONS OF ELECTROSTATIC AND MAGNETIC FIELD UTILIZATION N63-13354 08-23

HIGH-FREQUENCY PLASMA CONDUCTIVITY IN A MAGNETIC FIELD - MAGNETOHYDRODYNAMICS

SPIN RELAXATION-TIME OF LIQUIDS IN MEAK MAGNETIC FIELDS RAC-1054 N63-13557 08-24

TRANSIENT INTERACTION OF TRANSVERSE MAGNETIC FIELD WITH MAGNETOHYDRODYNAMIC COUETTE FLOW R63SD16 N63-13559 08-24

RADIO EMISSIONS AND MAGNETIC FIELD STRENGTH OF
JUPITER
AFCRI-62-721
N63-13740 OB-2

AFCRL-62-721 N63-13740 08-29 SOLAR CORPUSCULAR RADIATION AND TOPOLOGY OF

SOLAR CORPUSCULAR RADIATION AND INCOMPAGNETIC FIELD IN SOLAR CORONA N63-13778 08-28

MAGNETIC FIELD OF LOW ENERGY PROTON BELT
REVEALED BY EXPLORER XII MEASUREMENTS AND
CALCULATIONS FROM SIMULATED CONDITION
NASA-TN-D-1674 N63-13821 09-12

STABILITY OF HETEROGENEOUS SHEAR LAYER IN
MAGNETIC FIELD
JPL-TR-32-86 N63-13929 09-24

MAGNETIC FIELDS - INTERPLANETARY, PLANETARY, STELLAR, METEORIC AND GEOMAGNETISM RM-3523-NASA N63-13990 09-12

MAGNETIC FIELD VARIATIONS AND VLF ELECTROMAGNETIC WAVE PROPAGATION AS INFLUENCED BY LIGHTNING DISCHARGES AFCRL-62-786 N63-14094 09-23

PRODUCTION OF MILLIMETER & SUBMILLIMETER WAVES BY INJECTION OF ELECTRON BEAMS INTO MAGNETIC FIELDS AFCRL-62-718 N63-14217 09-25

DIRECTIONAL CORRELATION ATTENUATION COEFFICIENT

DIRECTIONAL CORRELATION ATTENUATION COEFFICIENT FOR MAGNETIC DIPOLE & ELECTRIC QUADRAPOLE INTER-ACTIONS - PART 2, INTERMEDIATE NUCLEAR STATE SPIN TIO-17089/PT. II/ N63-14285 10-23

NORTHERN QUIET ARCS IN LOWER LIMIT OF LATITUDE
/US SECTOR/ AND ITS RELATION TO MAGNETIC STORMS &
TO THE RING CURRENT MAGNETIC FIELD INTENSITY
M63-14287 10-12

INTERACTION OF ELECTROMAGNETIC WAYES AND PARTIALLY IONIZED GAS IN EXTERNAL MAGNETIC FIELD N63-14389 10-24

MICROWAVE PROPAGATION IN FLOWING PLASMA IN PRESENCE OF MAGMETIC FIELD 1/2 M63-14392 10-24

ANALYSIS OF DISTORTION OF PLANE, SUPERSONIC FREE JET BY A STRONG MAGNETIC FIELD D1-82-0147 MAGNETIC FIELD M63-14534 10-24

MAGNETOFLUID DYNAMICS OF BODIES IN ALIGNED FIELDS MRC-360 M63-14596 10-24

PINCH EFFECT OF AN AKIAL MAGNETIC FIELD ON A CONTINUOUS FLOW OF PLASMA IN A CONVERGENT-DIVERGENT MOZZLE N63-14612 10-24

TAMING THE SUPERMAGNETS - CRYOGENIC CONDUCTORS N63-14667 10-23

MAGMETOHYDRODYNAMICS - PLASMA STABILITY IN MAGMETIC FIELDS, THERMONUCLEAR ENERGY HARNESSING PIBMRI-1025-62 N63-14774 11-24

MOTION OF PLASMA RING IN COAXIAL FLOW MAGNETIC FIELD - ACCELERATOR NASA-TR-R-121 N83-14673 11-24

ONE-DIMENSIONAL HYDROMAGNETIC FLOW WITH TRANSVERSE MAGNETIC FIELD - SIMPLE WAVE FLOW AND FLOW IN CHANNEL WITH SMALL AREA VARIATIONS N63-14945 11-20

MAGNETOHYDRODYNAMIC FLOW PAST NONCONDUCTING FLAT PLATE IN PRESENCE OF TRANSVERSE MAGNETIC FIELD MIT-TR-397 N63-14964 11-03

SPACECRAFT SHIELDING BY MAGNETIC FIELDS N63-15155 11-32

FIELD EMISSION CURRENT IN MAGNETIC FIELD APPLIED TO SEMIMETALS AND SEMICONDUCTORS NA3-15298 12-23

MOTION OF ELECTRON IN MAGNETIC BOTTLE - PARTICLE TRAJECTORY

MOTION OF PLASMA RING THROUGH VARIOUS TRAVELING
MAGNETIC-MAVE PLASMA ACCELERATORS
NASA-TN-D-1636 N63-15472 12-24

CANONICAL FORMALISM OF MOTION OF CHARGED PARTICLES IN MAGNETIC FIELD IPPJ-5 M63-15503 12-74

HYDROMAGNETIC STAGNATION-POINT BOUNDARY LAYER WITH ARBITRARY PRESSURE GRADIENT AND MAGNETIC FIELD NASA-TN-D-1703

NONADIABATIC MOTION OF A CHARGED PARTICLE IN AN EXTERNAL MAGNETIC FIELD 19PJ-8 M63-15868 13-24

DYNAMIC STABILIZATION OF PLASMA COLUMN BY RADIO FREQUENCY AZIMUTHAL MAGNETIC FIELD TDR-930/2210-02/TN-1 N63-15871 13-24

EMERGY STORAGE & MAGNETIC FIELDS FOR SPACE VEHICLE FABRICATION & OPERATION - FASTENERS & SPACE MECHANICS N63-16007 13-23

ELECTRON BEAM LAMINAR FLOW IN MAGNETIC FIELD -BRILLOUIN BEAM - STL-100 ELECTRON GUN

SUDDEN ENERGY RELEASE AT CENTER OF THEORETICAL POLYTROPIC STAR CARRYING RAGNETIC DIPOLE ACES-63-8 163-22061 22

DISPERSION RELATIONSHIP FOR WAVES ON MOVING PLASMA

HAG

EE-539 N63-16071 13-09	ELECTRIC ON MAGNETIC FIELD AND FIELD-FREE BANDS NG3-18975 18-23
MAGNETIC FIELD AND ROTATION PERIOD OF VENUS TG-230-T304 M63-16121 13-29	SOLAR FLARÈ PHENOMENON AND THEORY OF RECONNECTION AND ANNIHILATION OF PAGNETIC FIELDS
MAGNETIC FIELD GRAVITATIONAL EFFECT ON PLASMA STABILITY - IDEAL MAGNETOHYDRODYMANICS NUP-63-1 M63-16203 13-24	PERSONNEL SHIELDING AGAINST CHARGED PARTICLES IN
ELECTROMAGNETIC WAYE PROPAGATION ALONG PLASMA COLUMNS IN MAGNETIC FIELDS	SPACE USING ELECTRIC OR MAGNETIC FIELDS - ELECTROSTATIC SHIELDING ASD-TOR-63-194 M63-18993 18-16
AFCRL-63-81 N63-16310 13-24 PLASMA GENERATION BY SEMICONDUCTOR CRYSTAL IN MAGNETIC FIELD N63-16365 14-25	DCX-2 APPARATUS - PLASMA GENERATION BY INJECTION AND DISSOCIATION OF 600-KEY MYDROGEN MOLECULAR TONS IN MAGNETIC MIRROR FIELD
TERMINATION OF SOLAR WIND AND SOLAR MAGNETIC FIELD	ORML-3325 N63-19140 10-24
MASA-CR-50153 N63-16728 14-28 AXIAL ARC IN RADIAL MAGNETIC FIELD - MALL	SALZBURG PLASMA PHYSICS COMFERENCE, SEPT 1961 - PLASMA BEMAVIOR IN MAGNETIC FIELDS AND TRAPS AEC-TR-5589, BK. 1 N63-19193 18-24
CURRENT MEASUREMENTS IN LINEAR HALL ACCELERATOR 863-16734 14-24	GRAVITATIONAL INSTABILITY OF PLASMA PLANE BOUNDARY
MEASUREMENT OF HIGH MAGNETIC FIELDS BY REAMS OF	IN MAGNETIC FIELD - PARTICLE COLLISION MUP-63-2 N63-19344 18-24
FARADAY EFFECT LNF-63/3 M63-16024 14-23	HIGH VACUUM AND HIGH TEMPERATURE ENVIRONMENT
MAGNETOGASOYNAMICS RESEARCH - STEADY PLASMA FLOW AND IONIZED GAS FLOW PRODUCED BY SHOCK TUBES -	ASD-TDR-63-474 N63-19464 19-17
INFLUENCE OF ELECTRIC AND MAGNETIC FIELDS AD-283026 M63-16917 14-24	LAMIMAR BOUNDARY LAYER SIMILARITY SOLUTIONS FOR ROTATING FLOW WITH AND WITHOUT MAGNETIC INTERACTION
GLOW DISCHARGES BETWEEN COAXIAL CYLINDERS IN	ATN-63/9220/-6 N63-19727 19-11
MAGNETIC FIELD AFCRL-63-121 N63-17080 15-24	INSTABILITY OF ALTERNATING-CURRENT POSITIVE COLUMN
KINETIC EQUATIONS FOR GASES IN EXTERNAL FIELDS -	IN MAGNETIC FIELD UCRL-10698 N63-19794 19-24
PLASRAS ARAP-48 H63-17243 15-20	ABSORPTION COEFFICIENT OF ATOMS IN REVERSE ZEEMAN EFFECT WITH ARBITRARY DIRECTION OF MAGNETIC FIELD
PLAMETARY AERONOMY - ATOMIC SHIELDING FACTORS AND CHANGES IN ATOMIC CHARGE DISTRIBUTION IN	MASA-TT-F-110 M63-19859 19-23
INTERACTION WITH MAGNETIC FIELD 6CA-TR-63-2-N M63-17315 15-23	ELECTRIC VACUUM GYROSCOPE, PLASMA PHYSICS, COMPUTER PROGRAM, HIGH MAGNETIC FIELD SUPER- COMDUCTOR, ELECTRONICS, AND DISARMANENT RESEARCH
MULTIPOLAR CUSP MAGNETIC FIELD AND APPLICATION TO CONFINEMENT AND ADIABATIC COMPRESSION OF PLASMA	N63-20580 20-00
MATT-185 M63-17553 16-24	BOLTZMANN EQUATION EXPRESSIONS FOR ELECTRIC CURRENT IN PLASMA AT LOW DENSITY IN MAGNETIC FIELD
BOUNDARY LAYER PRODUCED BY VORTEX FLOW OVER A DISK WITH AN AXIAL MAGNETIC FIELD	N63-20645 20-24
ATH-63/9227/-1 H63-17681 16-24 EHISSION AND ABSORPTION OF RADIATION FROM FULLY	PLASMA COLUMN EXPANSION IN LONGITUDINAL MAGNETIC FIELD NASA-CR-51021 N63-21054 21-24
IONIZED PLASMA IN PRESENCE OF MAGNETIC FIELD ARL-63-62 N63-17895 16-24	INFINITE MASS OF INCOMPRESSIBLE FLUID PENETRATED
HAGMETIC FIELDS ON GAS DISCHARGE LASER USAELROL-TR-2322 N63-17908 16-23	BY MAGNETIC FIELD - MAGNETOHYDRODYNAMICS MASA-CR-50960 M63-21060 21-24
MICROSTRUCTURE OF INTERNAL MAGNETIC FIELD IN	INREGULARITIES MOVING ACROSS THE IONOSPHERIC MAGNETIC FIELD EXPLAINED AS SOUND WAVES EXCITED BY
FERROMAGNETIC, FERRIMAGNETIC, AND ANTIFERROMAGNETIC SOLIDS	ELECTRON GAS STREAMS SEL-63-030 N63-21209 21-23
ASD-TOR-43-208 N63-17913 16-25 TRANSVERSE WAYES IN A PLASMA IN A MAGNETIC FIELD	SOLAR MAGNETIC FIELD FORMED BY RADIAL SOLAR WIND N63-21277 21-28
M63-17953 16-24 IMPEDANCE OF ELECTRICALLY-SMALL ANTENNAS IM	SUPERCONDUCTIVE MATERIALS LIST - PROPERTIES, MACNETIC FIELD MG3-21415 22-19
DIELECTRIC OR MAGNETIC MEDIUM M63-18085 16-09	MEASURING DISCHARGE ARC LOSS IN MAGNETIC FIELD
MAGNETOHYDROMAGNETIC WAYES IN CONSTANT DIPOLE	RADC-TDR-63-336 M63-21556 22-24
MAGNETIC FIELD MASA-CR-50216 M63-18404 17-24	CONTINUOUS FOCUSING OF ELECTRON BEARS BY AXI- SYMMETRIC MAGNETIC FIELD M63-21638 22-23
OME-DIMENSIONAL FLOW OF COMDUCTING GAS IN CROSSED, LONGITUDINAL ELECTRIC AND TRANSVERSE MAGNETIC FIELDS - MALL EFFECT	MAGNETIC FIELDS - EFFECT AND VARIATION IN STELLAR EVOLUTION AND EQUILIBRIUM AEES-63-9 N63-21650 22-29
M63-16727 17-11	RESONANCES AND WAVES IN ONE- AND TWO-ION SPECIES
STABILITY OF PLASMAS IN MAGNETIC FIELDS 1PPJ-7 N63-18885 18-24	PLASMAS SUBJECTED TO INTENSE MAGNETIC FIELDS MASA-CR-50855 H63-21998 22-24

ELECTROMAGNETIC RADIATION DUE TO RADIAL MOTION OF CONDUCTING SPHERE IN MAGNETIC FIELD - PLASMA CLOUD EXPANSION APPLICATIONS N63-18902 18-24

ADIABATIC CONNECTION BETWEEN BLOCK BANDS IN

.

Y

.

MA

AND BOUNDED, FINITE TEMPERATURE PLASMA IN	PROPAGATION IN BARS
LECTROMAGNETIC FIELD AFCRL-63-195 N63-22384 23-24	AROD-2998-1 N63-11679 04-33
SHEATH NEAR A PLANE ELECTRODE BOUNDING A	NONTHERMAL IONIZATION FOR MAGNETOHYDRODYNAMIC ENERGY CONVERSION N63-13824 09-24
NASA-TN-D-1992 N63-22572 23-09 CALCULATION OF MAGNETIC FIELD DISTRIBUTION OF	PLASMA WAVE EXCITATION BY LINE CURRENT MAGNETIC INDUCTION — RADIO COMMUNICATION WITH MISSILES AND SPACE VEHICLES
FINITE HELICAL SOLENGID NASA-TN-D-1993 N63-22601 23-23	AD-283830 N63-16914 14-24
INTEGRAL EQUATIONS FOR ELECTROMAGNETIC FIELDS IN	DRIVEN SHOCK WAVES IN T-TUBE
ANISOTROPIC INHOMOGENEOUS MEDIA N63-22645 23-09	UTIA-TN-52 N63-17558 16-24
HIGH MAGNETIC FIELD STRENGTH SUPERCONDUCTING COILS	MAGNETICALLY INDUCED MOTION OF ELECTRIC ARCS - CHARACTERISTICS OF THERMAL ARCS
AVCO-EVERETT RES. REPT160 N63-22846 23-09	N63-23467 24-24
FIELD ANALYSIS BY INTEGRALS DEVELOPED & APPLIED TO VARIOUS TEST FIELDS PRESCRIBED OVER SURFACE OF A SPHERE N63-22873 23-12	MAGNETIC INSTRUMENT SOVIET PATENTS ON ACOUSTICAL AND MAGNETIC MEASURING INSTRUMENTS JPRS-16134 N63-10077 01-15
ULTRA-LOW INDUCTANCE CAPACITOR BANKS FOR FAST	THERE INSTRUCTION TO PARTIE OF THE PROPERTY OF THE PARTIES OF THE
RISING MAGNETIC FIELDS A-2957 N63-22910 23-09	A 90-DEGREE FLAT-PLATE TRIODE FOR DIRECT ENERGY CONVERSION - THERMIONICS NASA-TN-D-1532 N63-10180 01-06
INTERACTION OF NEUTRAL ION STREAMS WITH MAGNETIC	TEACHER METERS A FEET CERTAIN PARKANTANERYS CONTEST
DIPOLE FIELD NFCRL-63-723 N63-22985 23-24	MAGNETIC DRIVES FOR PRODUCING ROTATIONAL HOTION IN VACUUM APPARATUS
PRODUCTION OF CHARGED VECTOR BOSONS BY NEUTRINOS	FTD-TT-62-1143/18284 N63-10330 01-17
IN ELECTROMAGNETIC FIELD OF NUCLEUS CALCULATED FOR DIFFERENT BOSON MASSES & NUCLEI N63-22995 23-23	COMBINATION OF MAGNETIC LAYER AND NEDGE-TYPE ELECTROMAGNETIC WAVE ABSORBER RADC-TOR-62-531, VOL. 1 N63-10570 01-23
NEGATIVE CORRELATION BETWEEN POLAR CAP VISUAL	DESIGN OF MAGNETIC MOMENTUM SLITS FOR SEPARATING
NEGATIVE CURRELATION BETWEEN PULAR CAP VISUAL AURORA-AND MAGNETIC ACTIVITY NASA-TM-X-50782 N63-23036 24-29	PARTICLES IN A BEAM - DETERMINATION OF FRINGING FIELDS
EFFECT OF TRANSVERSE MAGNETIC FIELD ON MAGNETIC	SLAC-6 N63-11870 D4-23
SURFACES IN STELLARATOR WITH HELICAL WINDINGS MATT-197 DESIGN OF TWO REGION SOLENGIDS FOR HIGHER MAGNETIC	LONG RANGE MAVIGATION - VERY LOW FREQUENCY RADID SYSTEMS, SATELLITE NAVIGATION SYSTEMS, MACHETIC COMPASSES, INERTIAL NAVIGATION AND GYROSCOPES N63-14803 11-22
FIELD CRYOGENIC MAGNET N63-23287 24-09	DIGITAL DATA STORAGE AND DISPLAY USING MAGNETIC
300,000 GAUSS THO REGION ALUMINUM SOLENOID	DRUM AND CATHODE RAY TUBE SCREEN CREL-1145 100 19-08
CRYOGENIC MAGNET FOR INTERMITTENT OPERATION N63-23288 24-09	ELECTRON-POSITRON MAGNETIC STORAGE RING - DESIGN AND CONSTRUCTION
GEOMAGNETISM - ROLE OF GRAVITATIONAL AND MAGNETIC FIELDS IN SPACE AND EARTH CORE CURRENTS - USE OF	LNF-63/62 N63-22925 23-23
SATELLITES IN ELECTROMAGNETIC MAPPING N63-23441 24-12	HAGNETIC HATERIAL CF CORE
PLASMA ACCELERATION BY TRAVELING MAGNETIC WAVE No.3-23478 24-24	CF FILM SPIN WAVE ELECTRON INTERACTION IN MAGNETIC SOLIDS N63-10159 01-23
HOTION OF ELECTRIC ARCS IN TRANSVERSE MAGNETIC	SPONTANEOUS MAGNETIZATION IN SOLID BODIES, MAGNETIC RESONANCE EQUATIONS, FERRITES, NICKEL
SEASUREMENT OF STAGNATION POINT HEAT TRANSFER FROM	OXIDE ASD-TDR-62-375 M63-10877 02-23
PLASMAS IN MAGNETIC FIELD - ERROR ANALYSIS N63-23489 24-24	ELECTRIC AND MAGNETIC PROPERTIES OF VANADIUM SESQUIOXIDE AND RELATED SESQUIDXIDES
HYDROMAGNETIC WAVE PROPAGATION IN CONSTANT DIPOLE	M63-11311 03-25
NASA-CR-51994 N63-23507 24-09	SOVIET REPORT ON FERRITE CORES, MAGNETIC CORES, REGISTERS, MEMORY DEVICES, AND STORAGE DEVICES
MAGNETIC FIELDS OF EARTH & PLANETS N63-23524 24-29	JPRS-14224 N63-11676 04-23
BIOLOGICAL ACTION OF RADIOFREQUENCY MAGNETIC AND ELECTROMAGNETIC FIELDS N63-23563 24-16	GONORDON CRISTALS
TARREST MONEY OF STREET, MEANING REAL OF SERVING TORS, AND	FLIGHT VEHICLE POWER & MATERIALS - CHEMICAL, SOLAR & NUCLEAR ENERGY - ELECTRIC, ELECTRONIC, MAGNETIC, POLYMERIC & COMPOSITE MATERIALS TDR-930/2701-01/TN-1/IIPT 1-4S
BY INTERACTION OF TURBULENT EDDIES WITH LARGE-SCALE WEAK MAGNETIC FIELD IN PHOTOSPHERE	
KINEMATICAL THEORY FOR MAGNETIC FIELDS PRODUCED BY INTERACTION OF TURBULENT EDDIES WITH LARGE-SCALE WEAK MAGNETIC FIELD IN PHOTOSPHERE N63-23598 24-24	NAOTE STORMAN AND AND AND AND AND AND AND AND AND A
BY INTERACTION OF TURBULENT EDDIES WITH LARGE-SCALE WEAK MAGNETIC FIELD IN PHOTOSPHERE N63-23598 24-24 NETIC INDUCTION USE OF MAGNETIC AND SOLAR ENERGY, AND PROTECTION FROM METEORS, BASED ON TSANDERS SPACE FLIGHT WORK	ENERGY LEVELS OF MAGNETIC IONS IN COMPLEX METAL OXIDES — ORTHOFERRITE PARAMAGNETIC RESONANCE AND SPIN STRUCTURE COMPARED TO ORTHOALUMINATES AFGRI-63-103 13-23
BY INTERACTION OF TURBULENT EDDIES WITH LARGE-SCALE WEAK MAGNETIC FIELD IN PHOTOSPHERE N63-23598 24-24 NETIC INDUCTION USE OF MAGNETIC AND SOLAR ENERGY, AND PROTECTION FROM METEORS, BASED ON TSANDERS SPACE FLIGHT WORK	OXIDES - ORTHOFERRITE PARAMAGNETIC RESONANCE AND

AROD-2558-7	N63-19976	19-23	AFCRL-62-1139	N63-11693 04-12
MAGNETIC PROPERTY CF HALL EFFECT CF HYSTERESIS			DEVELOPMENT OF MAIN PHASE ACTIVITIES DURING MAGNETIC	
CF INDUCTION			House Street	
PHYSICAL AND MAGNETIC PROPE MAGNETIC ALLOY SYSTEM NOLTR-62-144	RTIES OF ALUMINU	M-IRON 07-18	INJUM 1 SATELLITE OBSERVA AND MAGNETIC STORMS	TIONS OF SOLAR PROTONS N63-13317 07-28
MAGNETIC QUANTITIES AND MAG			MAGNETIC AND IONOSPHERIC REGIONS FROM SOLAR CORPUSI OF STREAM/EARTH INTERACTION	CULAR STREAMS - THEORIES
NBS-MONOGRAPH-47	N63-14846	11-23		
RHEOLOGICAL BEHAVIOR OF AER SEDIMENTATION & VISCOSITY S	TABILIZATION STU	DIES 11-11	EXPLORER XII ION-ELECTRON STORM SUDDEN COMMERCEMENT 5 MEV PROTONS & 20 KEV EL NASA-TN-D-1700	ON SEPT 30 1961 - 0.1 TO
SINGLE CRYSTAL CONDUCTIVITY MAGNETIC PROPERTIES FOR TUN RUBIDIUM TUNGSTEN BRONZE			CHANGE IN BOUNDARY OF DUT FOLLOWING MAGNETIC STORM EXPLORER VII DATA ON TRAP SUI-63-7	OF SEPTEMBER 30, 1961 -
QUASISTATIC MAGNETIC PROPER FILM USING AUTOMATIC MAGNET NASA-CR-50627		E	ASSOCIATION BETWEEN SUBVI- HORIZONTAL COMPONENT OF S FIELD - MAGNETIC STORM AN	SUAL KED ARCS AND TORM-TIME DISTURBANCE
MAGNETIC PROPERTIES OF RARE				N63-15943 13-12
ELEMENT IONS - ELECTRON PAR MAGNETIC RESONANCE, RELAXAT AFCRL-63-192	ION & SUSCEPTIBLE		HIGH LATITUDE GEOPHYSICAL 1962 - EARTH CURRENT, ION COSMIC RADID NOISE, AND M.	OSPHERIC ABSORPTION OF
MAGNETIC PROPERTIES OF RARE			UAG-C-28	N63-16023 13-12
THEORIES OF MAGNETISM	N63-19822	19-10	INTERACTION BETWEEN PLASM	A AND TRAVELING MAGNETIC
MAGNETIC PROPERTIES OF CUPRI TEMPERATURE	N63-19919	19-18	DISTURBANCE UCRL-7253	N63-16565 14-24
MAGNETIC PROPERTIES OF THUL TEMPERATURE ON STRUCTURAL S			MAGNETIC STORMS - DEVELOPI POLAR SUB-STORMS	MENT OF MAIN PHASE AND N63-19133 18-12
MAGNETIC PROPERTIES OF PIEZO OXIDE - TEMPERATURE EFFECTS	DELECTRIC GALLIU	M-IRON	ENHANCEMENT OF EQUATORIAL MAGNETIC SUBSTORMS - AURO	RAL ELECTROJET EFFECT
OXIDE ADDITIONS AFCRL-63-303	N63-21421	22-19	COSMIC RAY INCREASE BETWE	
MAGNETIC PROPERTIES OF FERRI		ENTERED	INDEX OF SOLAR ACTIVITY AFCRL-63-855	N63-20925 21-28
COULT ALLOTS OF COPPER & HAI	N63-23591	24-18	PROPAGATION OF MAGNETIC PI	
MAGNETIC AND PHYSICAL PROPER AND STRONTIUM FERRITES			OF MAGNETIC STORMS NASA-RP-20	N63-21347 21-12
FT0-TT-62-1539/16264	N63-23130	24-19	EXPORER XII OBSERVATIONS	OF MAGNETOSPHERE BOUNDARY
MAGNETIC RESONANCE SA NUCLEAR MAGNETIC RESONANCE SA PARAMAGNETIC RESONANCE			AND SOLAR PLASMA DURING MA	
SPONTANEOUS MAGNETIZATION IN MAGNETIC RESONANCE EQUATIONS		KEL	MAIN PHASE OF MAGNETIC STO CURRENT	
OXIDE ASD-TDR-62-375	N63-10877	02-23	NASA-CR-51722	N63-22929 23-12
ZEEMAN PHENOMENON AND MAGNET	TIC RESONANCE -		MAGNETIC SUSCEPTIBILITY MAGNETIC SUSCEPTIBILITIES	
CLEAVAGE OF SPECTRAL LINES / JPRS-17398		05-23	CORUNDUM CRYSTAL'S	N63-12234 05-25
TABLE OF ATTENUATION VALUES DETERMINATION OF FERRIMAGNET		HENTOTH	MAGNETIC SUSCEPTIBILITY OF JPL-TR-32-165	N63-14666 10-23
OF NONMETALLIC MAGNETIC MATE	ERIALS	13-25	MAGNETIC SUSCEPTIBILITY OF	F SIDERITE AND OTHER
NUCLEAR SPINS OF COPPER-62			BM-RI-6224	N63-15378 12-18
STRUCTURE SEPARATION OF COPP ATOMIC BEAM MAGNETIC RESONAN UCRL-10780	PER-61 & COPPER-6	64 - METHOD	MAGNETIC SUSCEPTIBILITIES BISMUTH TODIDE SOLUTIONS NAA-SR-8085	
MAGNETIC RESONANCE IN STRONG SYSTEM - YTTRIUM-IRON GARNET	GLY COUPLED DIPOL N63-21833	LE 22-23	MULTICOIL INDUCTION MEASUR AND SUBSURFACE MAGNETIC ST	USCEPTIBILITY
MAGNETIC STORM CF GEOMAGNETIC STORM			MAGNETIC SUSCEPTIBILITY DI	
CF IONOSPHERIC STORM INFLUENCE OF GEOMETRIC ATTER MAGNETIC WAVES ON SUDDEN COR			AT LOW TEMPERATURE MAGNETIC SUSCEPTIBILITY, 1	N63-18425 17-25 SPECIFIC HEAT, THERMO-
STORMS LR-16085	N63-11135	03-12	CONDUCTIVITY & MAGNETIC MO METAL COMPOUNDS	OMENTS OF RARE EARTH N63-19421 19-23
CORRELATION BETWEEN EARTH CO DISTURBANCES	URRENTS AND MAGNE	ETIC	VARIABLE TEMPERATURE APPAI MAGNETIC SUSCEPTIBILITY -	

-12

-12

-28 LAR

TO

IIC

ES

-12

-12 IC

-24

-12

AR

-12

-28

-12

ARY

-29

NG

-25

-23

-18

-23

CE -29

-23

N63-13320 07-23

AERE-R-4186 N63-20692	21-23	PARTICLE ACCELERATOR BEAM
MAGNETIC SUSCEPTIBILITY OF IRON GROUP COMPON FIELDS TO 500,000 GAUSS N63-23290	UNDS IN 24-09	PLASMA PHYSICS - DCX-1 AND DCX-2 PL ARC; IONS, MAGNETICS AND SUPERCONDU
MAGNETIC TAPE METHOD OF INCREMENTAL RECORDING ON MAGNETIC	TAPE	ORNL-3392 N6
USNRDL-TR-548 N63-10316	01-15	SPONTANEOUS MAGNETIZATION IN SOLIDS FERROMAGNETIC FILMS, AND MANGANOUS
SYSTEM FOR RECORDING AND PROCESSING TRANSIES TYPE DATA	LATE OF	ASD-TR-61-630 No
NASA-TN-D-1320 N63-12312	05-20	PARTICLE MOVEMENT THEORY AND INCREA
DIGITAL SYSTEM FOR DATA COLLECTION, REDUCTION NAME NAME NAME NAME NAME NAME NAME NAM	07-20	JPRS-13752 NO FINE STRUCTURE OF METEOR-BURST SIGN
ENDLESS-LOOP MAGNETIC TAPE RECORDER FOR TIRE	os	WITH HIGH SPEED MAGNETIC TAPES
NASA-TN-D-1542 N63-13097	07-08	MODEL C STELLARATOR, SMALL DEVICE
MAGNETIC TAPE COPIES OF MIT GEOPHYSICS PROG	RAH,	THEORETICAL PLASMA PHYSICS
SET I - BIBLIOGRAPHY AFCRL-63-282 N63-14241	10-20	MATT-Q-20
		EFFECT OF DIFFUSION ON EQUILIBRIUM
ANALOG COMPUTER ANALYSIS OF SEISMOMETER MAG	NETIC	DENSITY DISTRIBUTION IN F-REGION NO
NASA-CR-50393 N63-17909	16-12	MAGNETIC TORQUERS FOR SPACECRAFT AT
RECORDING OF STAR CATALOG ON MAGNETIC TAPE	FOR	ASD-TOR-63-74
NASA-TH-X-50150 N63-18292	17-05	MAGNETIC AND SPECTROSCOPIC PROPERTY
STAR CATALOGS ON PUNCHED CARDS AND MAGNETIC	TAPE	EARTH IONS BY HARTREE-FOCK CALCULATION NO.
NASA-TH-X-50148 N63-18421	17-20	HIGH-DIELECTRIC CONSTANT MATERIALS
TRANSMISSION OF CONTINUOUS ANALOG DATA AND	PULSE	TEMPERATURE DIELECTRICS, MAGNETIC !
AMPLITUDE TIME MULTIPLEXED DATA INTO DIGITAL FORMATS ON MAGNETIC TAPE - DATA REDUCTION		CRYSTAL PHYSICS & MAGNETICS NO
AFCRL-63-814 N63-21923	22-08	MAGNETIC QUANTITIES AND MAGNETIC PI
MAGNETIC VARIATION		MATERIALS NBS-MONOGRAPH-47
RAPID FLUCTUATION OF GEOMAGNETIC FIELD		The state of the s
AFCRL-63-436 N63-16952	14-12	MARINER II VENUS PROBE - MAGNETOSPI DISTRIBUTION AND INTENSITY OF CHARG
MAGNETISH SA AFROMAGNETISH		MAGNETIC TRAPS
SA ELECTROMAGNETISM		MODULATION OF SPINNING COIL ELECTRI
SA FERRIMAGNETISM SA FERROMAGNETISM		BY MAGNETIC SIGNAL
SA GALVANDHAGNETISM		METEOROLOGICAL AND MAGNETIC DESERVA
SA GERMAGNETISM		1957-1958 N
SA TERRESTRIAL MAGNETISM		ELECTRON SYNCHROTRON, CRYOGENICS,
CONTROLLED THERMONUCLEAR RESEARCH UCRL-10294 N63-10141	01-23	ELECTRONICS, MAGNETISM, COMPUTER, POSITRON STORAGE RING EXPERIMENTS
APPLICATION OF THE MODULARIZATION CONCEPT TO		LNF-63/11
SATELLITE TAPE RECORDERS	12:33	MAGNETOSTRICTIVE GENERATION OF MICE
NASA-TN-D-1451 N63-10176	01-15	BY THIN MAGNETIC FILMS AFCRL-63-57
LECTURES ON FUSION POWER - PLASMA CONFINEME	NT	
MATT-145 N63-10319	01-24	MAGNETIC AND ELECTRIC FORCES FOR RESUSPENSION
MAGNETOHYDRODYNAMIC TURBULENCE INVESTIGATIO		ENI-4454-111-63U N
DCAS-TDR-62-167 N63-10682	02-24	TOTAL IONOSPHERIC ELECTRON DENSITY
MEASUREMENT OF ELECTRON CONTENT BY FARADAY		EQUATOR FROM OBSERVATIONS OF FARAD.
ON SATELLITE BEACON TRANSMITTERS LOCATED ON MAGNETIC EQUATOR N63-11607	04-12	SATELLITE TRANSMISSIONS NASA-TN-D-1756
A CONTRACTOR AND A CONTRACTOR AND A STANDARD SA	0-01-0-27	
SOVIET REPORT ON FERRITE CORES, MAGNETIC CO REGISTERS, MEMORY DEVICES, AND STORAGE DEVI	RES, CFS	FACTORS PRODUCING FRICTIONAL DRAG OF MAGNETICALLY SUSPENDED ROTORS A
JPR5-14224 N63-11676	04-23	ACHIEVING CONSTANT SPEED ROTATION
PROFILES OF ELECTRON DENSITY OVER MAGNETIC	EQUATOR	AROD-3764-1
OBTAINED USING INCOHERENT SCATTER TECHNIQUE		SURFACE WAVE PROPAGATION IN ANISOT
NBS-7633 N63-11980	05-12	SLABS - ELECTROMAGNETIC FIELDS OF PIBMRI-1151-63
MEASURING ELECTRICAL CONDUCTIVITY OF PLASMA		and almost a construction of the second
MAGNETIC PROBE N63-12748	06-15	HICROELECTRONICS RED - SEMICONDUCT HODULATION, AND MAGNETIC FILM LOGI
TABLE OF KINETIC ENERGY VS. MAGNETIC RIGID!	TY FOR	
ELECTRONS UCRL-10494 N63-12941	07-07	CURRENT SHEET SPEED IN MAGNETIC AM
	STATES I	AVCO-EVERETT RES. REPT152
MAGNETIC CORE VOLTAGE-TO-FREQUENCY CONVERTE NASA-TN-D-1677 NASA-TN-D-1677		MAGNETIC INSULATION EXPERIMENTS WI

DESIGN OF QUADRUPOLE CHANNEL TO CONTAIN EXTERNAL

- DCX-1 AND DCX-2 PLASMA, VACUUM HETICS AND SUPERCONDUCTIVITY N63-13458 08-23 CHETIZATION IN SOLIDS - COBALT, FILMS, AND MANGANOUS FLUORIDE N63-13664 08-23 NT THEORY AND INCREASING CYCLIC N63-13993 09-23 OF METEOR-BURST SIGNALS RECORDED MAGNETIC TAPES N63-14005 09-08 ATOR, SMALL DEVICE RESEARCH, N63-14040 09-24 SION ON EQUILIBRIUM ELECTRON SUTION IN F-REGION NEAR MAGNETIC N63-14077 09-12 ERS FOR SPACECRAFT ATTITUDE CONTROL N63-14102 09-22 PECTROSCOPIC PROPERTIES OF RARE
HARTREE-FOCK CALCULATIONS
N63-14269 10-23 CONSTANT MATERIALS - HIGH ELECTRICS, MAGNETIC SPECTROSCOPY, E MAGNETICS N63-14628 10-23 TIES AND MAGNETIC PROPERTIES OF N63-14846 11-23 S PROBE - MAGNETOSPHERE - SPATIAL INTENSITY OF CHARGED PARTICLES IN M63-14943 11-29 SPINNING COIL ELECTRONOTIVE FORCE SNAL N63-15296 12-08 AND MAGNETIC DESERVATIONS IN SPAIN, N63-15428 12-21 ROTRON, CRYOGENICS, RADIO-FREQUENCY AGNETISM, COMPUTER, AND ELECTRON AND BE RING EXPERIMENTS N63-15565 12-23 VE GENERATION OF MICROWAVE PHONONS IC FILMS N63-15659 12-25 ECTRIC FORCES FOR ROTATING SHAFT N63-16306 13-17 RIC ELECTRON DENSITY AT MAGNETIC BSERVATIONS OF FARADAY EFFECT ON MISSIONS N63-17119 15-20 ING FRICTIONAL DRAG AND DECELERATION Y SUSPENDED ROTORS AND DEVICE TANT SPEED ROTATION ROPAGATION IN ANISOTROPIC DIELECTRIC OMAGNETIC FIELDS OF EXCITED PLASMAS M63-17333 15-24 CS RED - SEMICONDUCTOR, FIELD EFFECT D MAGNETIC FILM LOGIC N63-17355 15-09 SPEED IN MAGNETIC ANNULAR SHOCK TUBE ES. REPT.-152 N63-17463 15-11 MAGNETIC INSULATION EXPERIMENTS WITH TRAVELING MAGNETIC PISTON PLASMA ACCELERATOR SSD-TDR-63-72 N63-17529 16-11

DESIGN PRINCIPLES OF SUPERCONDUCTING FRICTIONLESS MAGNETIC BEARINGS N63-17827 16-17
FLUX SWITCHING IN MULTIPATH FERRITE CORE
PROPAGATION NASA-CR-50058 N63-18407 17-09
QUASISTATIC MAGNETIC PROPERTIES OF THIN PERMALLOY
FILM USING AUTOMATIC MAGNETIC TORQUE BALANCE NASA-CR-50627 N63-18420 17-18
MAGNETIC CORE MATRIX TIME COMPRESSOR /MACOMATIC/ CORRELATION SIGNAL PROCESSING SYSTEM - UNDERWATER ACOUSTIC SIGNALS
NEL-1161 N63-18854 18-23
DCX-2 APPARATUS - PLASMA GENERATION BY INJECTION AND DISSOCIATION OF 600-KEV HYDROGEN MOLECULAR IONS IN MAGNETIC MIRROR FIELD ORNL-3325 N63-19148 18-24
SALZBURG PLASMA PHYSICS CONFERENCE, SEPT 1961 -
PLASMA BEHAVIOR IN MAGNETIC FIELDS AND TRAPS AEC-TR-5589, BK. 1 N63-19193 18-24
MAGNETIC RELAXATION IN RARE-EARTH METAL CRYSTALS FOR MASERS N63-19416 19-23
INSTABILITY IN THREE-PHASE MAGNETIC AMPLIFIER OPERATION
UCRL-10855 N63-19925 19-09
FLUX SWITCHING IN MULTIPATH MAGNETIC CORES NASA-CR-50888 N63-20254 20-09
SELECTION OF A SYSTEM OF ELECTRICAL AND MAGNETIC
UNITS - RATIONALIZATION NBS-MONOGRAPH-56 N63-20767 21-09
TAPE RECORDERS FOR NIMBUS SATELLITE - ELECTRONIC AND MAGNETIC SYSTEMS, CONTROL OF RECORD & READOUT NASA-RP-30
DATA SYSTEMS USING DIGITAL COMPUTERS, MAGNETIC FILMS, COMPUTER COMPONENTS, AUTOMATIC SPEECH RECOGNITION, 6 HUMAN INFORMATION PROCESSES N63-21282 21-20
MAGNETICALLY SHIELDED ELECTRON GUN TO PRODUCE BRILLOUIN-FOCUSED ELECTRON BEAM
N63-21637 22-23
CALCULATIONS OF ENERGY LEVELS OF MAGNETIC IONS IN CRYSTALINE ELECTRIC FIELDS AFCRL-63-360 N63-21669 22-25
MAGNETIC ENERGY STORAGE USING SUPERCONDUCTING COILS N63-22286 23-06
MAGNETIC SURVEY DATA AVAILABLE PRIOR TO IQSY WORLD MAGNETIC SURVEY
MAGNETIC SURVEY NASA-TM-X-50956 N63-23024 24-12
MAGNETIC TAPE RECORDING AT VERY SLOW TAPE SPEEDS AFCRL-62-706 N63-23595 24-09
PULSE MAGNETIC DECODER TO INCREASE EFFICIENCY AND LOWER LEVEL OF INTERFERENCE
FTD-TT-63-459/162 N63-23737 24-09
HAGNETIZATION COOLING OF AN ANTIFERROMAGNET BY ADIABATIC MAGNETIZATION N63-10690 02-23
SPONTANEOUS MAGNETIZATION IN SOLID BODIES, MAGNETIC RESONANCE EQUATIONS, FERRITES, NICKEL
OXIDE ASD-TOR-62-375 N63-10877 02-23
ADIABATIC CONNECTION BETWEEN BLOCH BANDS IN ELECTRIC OR MAGNETIC FIELD AND FIELD-FREE BANDS
N63-18975 18-23
SOLID STATE PHYSICS - GROWTH OF SINGLE CRYSTALS & CRYSTAL FILMS, MAGNETIZATION & LATTICE ELASTIC PROPERTIES, NEUTROM DIFFRACTION, & INTERMETALLICS NOLTR-63-151 N63-23590 24-25

NICKEL ANISOTROPY CONSTANT DEPENDENCE ON

	TEMPERATURE AND SATURATION MAGN JPRS-21676	N63-23608	24-18
	INVISCID MAGNETOHYDRODYNAMIC FL	OW NEAR STAGN	ATION
	POINT OF MAGNETIZED SPHERE NOLTR 63-61	N63-23773	24-24
K	AGNETO-OPTIC CRYOGENICS AND MAGNETO-OPTICS -	CADMIUM SULF	IDE
	AND ZINC SULFIDE ARL-62-433	N63-11539	03-23
	CYCLOTRON RESONANCE AND MAGNETO SEMICONDUCTORS	N4 3-14004	CTS IN
MA	AGNETOELASTICITY SOLID STATE PHYSICS RED - SEMIC	ONDUCTORS.	
	MAGNETOELASTICITY, ACOUSTICS OF LASERS FOR HIGH SPEED PHOTOGRAP NOLTR-62-125	SILICON DXID	
HA	AGNETOGASDYNAMICS MAGNETOGASDYNAMICS RESEARCH - S	TEADY DI ACHA	ELON
	AND IONIZEO GAS FLOW PRODUCED B INFLUENCE OF ELECTRIC AND MAGNE AD-283026	Y SHOCK TUBES	
	RALEIGH PROBLEM IN MAGNETOGASDY	NAMICS N63-18055	16-24
	SMALL PERTURBATION WAVE PROPAGA		
	MAGNETOGASDYNAMIC CHANNEL FLOWS	N63-18059	16-11
	TRANSONIC MAGNETOGASDYNAMIC FLO MEDIUM - LEADING AND TRAILING E		
	GAS DYNAMICS OF ROCKET NOZZLE F FLOW AND CROSSED AND ALIGNED FI	LOW - MAGNETO ELD FLOW STAB N63-18576	-FLUID ILITY 17-11
	ACCELERATION OF MAGNETOGASDYNAM THROUGH SONIC VELOCITY - GAS DY D1-82-0239		DWS 17-11
	TWO-DIMENSIONAL MAGNETOGASDYNAM RESISTANCE, VISCOSITY AND HEAT		19-11
	IONIZATION NONEQUILIBRIUM EFFECTOYNAMIC INTERACTION IN STAGNATION		GAS-
	AXISYMMETRIC BLUNT BODIES CAL-AG-1547-Y-1	N63-19884	19-24
	PRESSURE HILL & ADIABATIC ELLIP	SE IN MAGNETO N63-23516	GAS- 24-24
	GNETOHYDRODYNAMIC FLOW		
C	F FLUID FLOW MAGNETOHYDRODYNAMIC FLOW PAST A PLATE IN THE PRESENCE OF A TRANS	NONCONDUCTIN	G FLAT
	DCAS-TDR-62-88	N63-10706	02-24
	MAGNETOHYDRODYNAMIC FLOW ANGLE : BSD-TDR-62-318	INDICATOR N63-12039	05-15
	EXACT SOLUTIONS FOR MAGNETOHYDR FLOWS - COVETTE & HARTMANN FLOW R62SD991	ODYNAMIC CHAN S WITH HALL E N63-12089	NEL FFECT 05-24
	TRANSIENT INTERACTION OF TRANSVI WITH MAGNETOHYDRODYNAMIC COUETT R63SD16		FIELD 08-24
	CONSERVATION LAWS FOR MAGNETOHY		
	NONUNIFORM MAGNETOHYDRODYNAMIC : WITH REFERENCE TO CYLINDRICAL AND	SHOCK PROPAGA	TION
	MRC-310	N63-14462	10-24
	MAGNETOFLUID DYNAMICS OF BODIES NRC-360	IN ALIGNED F	TELDS 10-24
	MAGNETOHYDRODYNAMIC FLOW PAST NO PLATE IN PRESENCE OF TRANSVERSE	MAGNETIC FIEL	LAT

D

T 24 LD 24 LD 24 K K 24 S 24

MIT-TR-397 N63-14964	11-03	MAGNETOHYDRODYNAMIC POWER GENE	RATION - PLASE	
MAGNETOHYDRODYNAMIC FLOW IN ELECTROMAGNETIC PUMPING OF LIQUID NETALS N63-15259		PWA-2133	N63-21244	
SOLUTION OF NONSTEADY-STATE PROBLEMS IN MAGNETOHYDRODYNAMICS FOR VISCOUS INCOMPRESS	TOLE	MAGNETOHYDRODYNAMIC POWER GENE PWA-2170 1-624	N63-21245	21-24
FTO-TT-63-208/16264 MO TTOMO 1 N63-23639	24-24	MAGNETONYDRODYNAMIC POWER CENE		
INVISCID MAGNETOHYDRODYNAMIC FLOW MEAR STAG POINT OF MAGNETIZED SPHERE NOLTR 63-61 N63-23773	24-24	MAGNETOHYDRODYNAMIC POWER GENE DESIGN - DC POMER RADC-TDR-62-464, VOL. VI	A COMMON TO A	
RAGNETOHYDRODYNARIC GENERATOR CF PLASMA GENERATOR RAGNETOHYDRODYNAMIC ENERGY GENERATORS	PAMO MILAH 17	ELECTRODES FOR MAGNETOHYDRODYN PERFORMANCE OF VARIOUS SHAPES R635D62		SER.
STUDIES ON AM ELECTRODELESS MAGNETOHYDRODYN	1-85	COMPRESSIBLE AND INCOMPRESSIBL MAGNETONYDRODYNAMIC POWER GENE	RATOR 4	国机
WGL PAPER-55 N63-10050	01-27	MASA-CR-55125 THERNOOYNAMIC CYCLES OF ATOMIC	M63-21727	
A CLOSED LOOP MAGNETOHYDRODYNAMIC DEVICE WI CESIUM SEEDED HELIUM FLOW M63-11289		MAGMETOHYDRODYNAMIC GENERATORS		I HAR
MAGNETOHYDRODYNAMIC-STEAN POMERPLANTS— REDU OF TEMPERATURE OR GENERATOR LENGTH — CESTUR SEEDING N63-11295	10.5	HIGH POWER SHORT DURATION MACH POWERPLANTS	N63-22290	
MAGNETOHYDRODYNAMIC POWER GENERATOR	APPA APPA	VERY HIGH POWER ROCKET-DRIVEN	MAGNETOHYDROD N63-22291	
	05-27	EXPLOSIVE MAGNETOHYDRODYNAMIC ULTRAHIGH POWER PULSES	GENERATORS FOR	
A-10 N63-12964 NONTHERNAL IONIZATION FOR MAGNETOHYDRODYNAM ENERGY CONVERSION N63-13824		MAGRETOHYDRODYNAMIC GENERATION FROM EXPLOSIVES	OF ELECTRIC	POMER 23-06
LONG LIFE CLOSED LOOP MAGNETOHYDRODYMANIC	10-24	EFFECT OF VISCOSITY IN MAGNETO GENERATOR LOSSES - VISCOUS AND LOSSES	REVERSE CURRI	ENT
ECONOMICAL DESIGN AND OPERATION OF MAGNETOHYDRODYNAMIC POWER GENERATORS N63-14318		MAGNETOHYDRODYNAMIC HALL GENER ELECTRODES AVCO-EVERETT RES. REPT165	M63-23433	19 24-09
VORTEX MAGNETOHYDRODYNAMIC GENERATOR — ELEC POWER FROM SEEDED COMBUSTION GAS HIXTURE ASD-TDR-62-459 N63-14775	1997	MAGNETONYORODYNAMIC TURBULENCE UNIVERSAL SHOCK TURE FOR APPLI MAGNETONYORODYNAMIC AND NYPERS	ONIC SHOCK	ERICAL,
MAGNETOHYDRODYNAMIC GENERATOR WITH SEGNENTE ELECTRODES PERFORMING UNDER NOMUNIFORM AND VANYING LOADS AVCO-EVERETT RES. REPT148 N63-15379	TIME	PAGNETONYORODYNAMIC MAVE MAGNETONYORODYNAMIC MAVE MAGNETONYORODYNAMIC TURBULENCE OCAS-TOR-02-167	INVESTIGATION	INCH.
ELECTRODELESS MAGNETONYDRODYNAMIC GENERATOR ELECTRODYNAMIC AND GAS DYNAMIC STUDY ASD-TDR-62-611, PT. I N63-16115	HARM	MAGNETOHYDRODYNAMIC MAVE PROPA MAGNETIC FIELD MASA-TH-D-1609	FOLIGHDS 30 BOS	THE
AMALYSIS OF FREE CONVECTION MAGNETONYDRODYN AMD ELECTRONYDRODYNAMIC ENERGY CONVERTERS ASD-TOR-62-320 N63-16302		SOLUTION FOR CYLINORICAL MAGNE MAYES RM-3054-PR	N63-16312	NAME
THEORETICAL PERFORMANCE FOR MAGNETOHYDRODYN GENERATOR UTILIZING NONEQUILIBRIUM IONIZATI PURE ALKALI NETAL VAPOR SYSTEM		MAGNETOHYDROMAGNETIC MAVES IN MAGNETIC FIELD MASA-CR-50216	CONSTANT DIPO	LE 17-24
R62SD94 N63-16588	14-24	THEORY OF MACHETOHYDRODYNAMIC	FREE SURFACE	IZAN:
MAGNETOHYDRODYMANIC POWER GENERATORS - ELEC MND-2866-1 N63-16922		MACRETOHYDAODYNAMICS 38 18 CRYA, IC	N63-23160	
FLUID MECHANICS OF COMBUSTION-DRIVE MAGNETO DYNAMIC GENERATOR AVCD-EVERETT RES. REPT145 M63-17188	PKAN.	CF FLUID FLOM	SUSHED LASTRIC	ELEC
MACHETOHYDRODYMARIC POWER GENERATION - POWE SOURCE BIBLIOGRAPHY AMP-110 M63-17950		CF PLASMA PHYSICS STUDIES CONCERNING TWO ELECTRO MAGNETOHYDRODYMANIC SYSTEMS MCL PAPER-56	SED LUGD! SYSTE	2010
STRUCTURAL MATERIALS FOR MAGNETOHYDRODYNAMI GENERATORS - REFRACTORY CONDUCTORS AND INSU PMA-2125 NO.3-19442	LATURS	MACHETOHYDRODYNAMIC SHEAR HEAT TWO RUTATING PLASMAS		
NONEQUILIBRIUM IONIZATION IN MAGNETOHYDRODY GENERATORS NG3-20755	MANIC	PLASMA PHYSICS AND MACHETUHYON BIBLIOGRAPHY AD-271170	VEPER OF A COVI	MART
PERFORMANCE CHARACTERISTICS OF WORTER TYPE	DY3HAME	THE MACHETOHYDRODYNAMICALLY SU	PPORTED HYPER	AAEA-75
MAGNETOHYDRODYNAMIC INDUCTION GENERATOR MASA-TH-D-2006 M63-20091		AVCO-EVERETT RES. REPT140	DHH 863-10758	14-02-11

MAGNETOIUNIC PLASMA
MAVE PROPAGATION IN A BOUNDED MAGNETOACTIVE PLASMA
NASA-CR-50853 N63-20251 20-24

H

	PLASMA PHYSICS AND MAGNETOHYDROG EXPLORATION			SAFETY FACTORS ANL-6739 M63-18027 1	
	NASA-SP-25 DIRECT ENERGY CONVERSION - ABST		DAM.	PROPELLANTS FOR CROSSED FIELD MAGNETOHYDRODYN ACCELERATION — PLASMA TEMPERATURE BY PHOTOGRAF	
		N63-11677		MEASUREMENT NSL-62-149-2 N63-18077 1	16-24
	MAGNETOHYDRODYMAMIC EFFECTS ON S HEAT TRANSFER FROM PARTIALLY IDM MONEQUILIBRIUM GASES IN SUPERSON TP-43	NIZED NIC FLOW		KUTTA-JOUKOWSKI CONDITION IN MAGNETOHYDRO- DYNAMICS - MAGNETIC FIELD EFFECT ON LIFTING FO ON FLAT PLATE IN CONDUCTING FLUID	DRCE
	MAGNETOHYDRODYNAMIC BOUNDARY LAY	rERS		MRC-399 A C 2 0 1 N63-19013 1	
	R63SD4		06-24	QUASI-ONE-DIMENSIONAL ANALYSES OF MAGNETOHYDRODYNAMIC CHANNEL FLOWS	
	MAGNETOHYDRODYNAMIC PROPULSION A GENERATION		O. Auto	N63-19058 1	
	R63SD5	N63-12682		MAGNETOHYDRODYNAMIC VORTICES CH-1037 N63-19082	
	MAGNETOHYDRODYNAMIC POWER GENERA R62SD990	N63-12800	06-24	MAGNETOHYDRODYNAMIC SHOCK WAVE STRUCTURE IN PARTIALLY IDNIZED HYDROGEN - ELECTRON TEMPERAT	
	MAGNETIC FIELD OF LINE CURRENT I	IN TRANSVERS	•	OF NEUTRAL PARTICLES BY SOFT X-RAY TECHNIQUE AVCO-EVERETT RES. REPT153 N63-20060	
	NASA-TN-D-1551	N63-12949	07-24	MAGNETOHYDRODYNAMICS - POISEUILLE PROBLEM AND	
	PROPAGATION OF ELECTROSTATIC PLA	ASMA WAVES II	N	SHOCK WAVE PROPAGATION N63-20197	
	A-9	N63-12963	07-24	MAGNETOHYDRODYNAMICS AND ITS ASTROPHYSICAL APPLICATIONS	
	HIGH-FREQUENCY PLASMA CONDUCTIVE FIELD - MAGNETOHYDRODYNAMICS			AFCRL-63-674 N63-20578	
	HATT-166	N63-13488	1 01	MAGNETOHYDRODYNAMIC SHOCK TUBE - HIGH TEMPERAT HIGH SPEED PERFORMANCE, AND EMISSION SPECTROG	RAPHY
	DYNAMIC NONLINEAR WAVE PROPAGATI MEDIA - ELECTROMAGNETIC WAVE REF AFCRL-62-969			N63-20720 2 SEEDING GRAPHITE INERT GAS HEATER FOR	
	APPROXIMATE EXPRESSIONS FOR BOUN		00 00	MAGNETOHYDRODYNAMIC STUDIES	
	THICKNESSES WITH LONGITUDINAL VE FOR MAGNETOHYDRODYNAMIC ACCELERA AEDC-TDR-63-24	LOCITY GRAD		PERFORMANCE CHARACTERISTICS OF VORTEX TYPE MAGNETOHYDRODYNAMIC INDUCTION GENERATOR MASA-TN-D-2006 M63-20891 2	17
	MAGNETOHYDRODYNAMICS - PLASMA ST MAGNETIC FIELDS, THERMONUCLEAR E PIBMRI-1025-62		SSING 11-24	INFINITE MASS OF INCOMPRESSIBLE FLUID PENETRAL BY MAGNETIC FIELD - MAGNETOHYDRODYNAMICS	TED
	MAGNETIC FIELD GRAVITATIONAL EFF STABILITY - IDEAL MAGNETOHYDRODY NUP-63-1		A/S	MASA-CR-50960 N63-21060 A MAGNETOHYDRODYNAMIC EQUATION FOR NONEQUILIBRIU PLASMA FLOW N63-21558 A	
	NONTHERMAL IONIZATION FOR MAGNET ENERGY CONVERSION - EXPERIMENTS DIODES AND MAGNETOHYDRODYNAMIC P	IN COLD CEST	LUM	SUPERCONDUCTING MAGNET APPLICATION TO MAGNETOHYDRODYNAMICS - MODELS, COOLING EQUIPME AND GENERATOR ANALYSIS N63-21804 2	ENT 22-23
15	MOTION OF CONDUCTING & NONCONDUC THROUGH A CONDUCTING LIQUID IN P MAGNETIC FIELD			ELECTROHYDRODYNAMICS AND WAVE-TYPE MAGNETOHYDRODYNAMIC A-C POWER GENERATION NASA-CR-50845 N63-21999	
	MAGNETOHYDRODYNAMIC POWERPLANTS SYSTEM	- CLOSED LOG)P	IMDUCTIVE ENERGY STORAGE, SUPERCONDUCTORS, MAGNETOHYDRODYNAMICS, TRANSDUCERS, SWITCHING & CONTROL RESEARCH	E.
	A0-284753	N63-17055	15-24	NEORETICAL PERFORMANCE FOR ALL TOMOSTOPHINES	23-01
	MAGNETOHYDRODYNAMIC CLOSED LOOP	N63-17056		MAGNETOHYDRODYNAMICS - NONEQUILIBRIUM IOMIZATI AND FLOW N63-22482	ION 23-24
	MAGNETOHYDRODYNAMIC MACHINE SIZE PERFORMANCE	- EFFECT ON N63-17057		EXPLOSIVE CHARGE PARAMETERS RELATED TO EFFICIE & UTILITY OF EXPLOSIVE ENERGY SOURCES FOR PULS MAGNETOHYDRODYNAMIC ENERGY CONVERSION	
	COMPARISON OF CALCULATED ELECTRO ELECTRICAL CONDUCTIVITY OF CESIO				23-24
	AND THAT MEASURED IN MHD DUCTS	N63-17058	19 92	RADIATION FROM DIPOLE IN ANISOTROPIC PLASMA, THERMAL RADIATION FROM FULLY IONIZED PLASMA	rA.
	MAGNETOHYDRODYNAMIC EXHAUST GAS CLOSED LOOP SYSTEM HEAT EXCHANGE			USCEC-96-101 N63-23063 2 APPROXIMATE SOLUTION OF MAGNETOHYDRODYNAMIC	
	HAVE PROPAGATION IN MAGNETOACTIV			EQUATIONS FOR FINITE ELECTRICAL CONDUCTIVITY N63-23175	
	AFCRL-63-642	N63-17901	16-24	MAGNETOLINIC THANK CONCUCTORS WAS TAKEN TO STRONG WAS TAKEN TO THE TOTAL THANK THE TAKEN THE TAK	10
20	MAGNETOHYDRODYNAMIC BOUNDARY LAY TRANSFER OF A CONDUCTING FLUID P CYLINDRICAL BDDY	AST A	STV STA	IONOSPHERIC ABSORPTION OF RADIO WAVES - COSMIC NOISE METHOD - MAGNETOIONIC THEORY AFCRL-82-1044 N63-10119 (
7	AIAA PAPER-63-202	N63-17919			

BOILING MATER AND LIQUID METAL-COOLED NUCLEAR REACTORS - TECHNOLOGY, MAGNETOHYDRODYNAMICS, AND

NONLINEAR ELECTROMAGNETIC WAVE PROPAGATION AND HARMONIC RADIATION IN MAGNETOIONIC MEDIA	THE MAGNETOSPHERE - DENSITY MEASUREMENTS, ATMOSPHERIC DRAG, TEMPERATURE
AFCRL-63-695 N63-20678 20-24	N63-10568 V 01-12
MAGNETOMETER MAGNETIC MEASURING SYSTEM ABL/8-22 N63-11048 03-15	GEOPHYSICAL RESEARCH WITH INJUN I, II, AND III SATELLITES SUI-62-28 303-123000000000000000000000000000000000
10-05 SAMS-EME : 20-01	THE FARTH NOT-17
ROCKETBORNE MAGNETOMETER AFSWC-TDR-62-25 N63-11315 03-15	MAGNETOSPHERIC INTERCHANGE INSTABILITY FOR IDEAL PLASMA A STABILITY FOR CASR-130 CRSR-130 CRSR-130 MOS-12033 05-24
PROTON PRECESSION MAGNETOMETER - IONOSPHERIC ELECTROMAGNETISM N63-12068 05-15	KP INDEX AND M-REGION GEOMAGNETIC STORMS
INTERPLANETARY MAGNETIC FIELDS - MARINER II OBSERVATIONS N63-12082 05-32	EFFECTS OF GRAVITATIONAL ENERGY ON MAGNETOSPHERIS
MISSILE ATTITUDE DETERMINATION USING MAGNETOMETERS	GAS EXCHANGE INSTABILITY N63-13600 08-12
NITH SUN AND EARTH SENSORS RG-TR-62-5 N63-13230 07-15	MARINER II VENUS PROBE - MAGNETOSPMERE - SPATIAL DISTRIBUTION AND INTENSITY OF CHARGED PARTICLES IN MAGNETIC TRAPS N63-14943 11-29
ELECTRON MICROSCOPE AND MAGNETOMETER INVESTIGATION OF STRUCTURAL AND MAGNETIC PROPERTIES OF THIN FERROMAGNETIC FILMS	CHARGED PARTICLE MEASUREMENT IN VENUS MAGNETOSPHERE WITH GEIGER-NUELLER DETECTOR ON
WADD-TR-60-787, PT. II N63-15797 13-17	MARINER II SUI-63-6 N63-15085 11-32
FOUR-CELL ROCKETBORNE MAGNETOMETER SMC-TDR-62-101 M63-16776 14-06	CHARGED PARTICLE ACCELERATIONS BY HYDROMAGNETIC
FLUXGATE MAGNETOMETER - REJECTION RATIO AIAA PAPER-63-187 N63-18214 17-15	SHOCK MAYES IN MAGNETOSPHERE RM-3527-NASA N63-17101 15-24
EXCITATION OF A VIBRATION MAGNETOMETER SUITABLE	MAGNETOSPHERE MAGNETOSPHERE MAGNETOSPHERE
FOR USE IN CRYOSTATS N63-22261 23-15 NAGNETOPAUSE	STANDING SHOCK MAVE HYPOTHESIS AS EXPLANATION OF OBSERVED STABILITY OF SOLAR MIND-GEOMAGNETIC FIELD
DISTANT GEOMAGNETIC FIELD - HYDROMAGNETIC DISORDER AND SHOCKS IN MAGNETOPAUSE	INTERFACE - MAGNETOSPHERE BOUNDARY NASA-CR-50152 N63-17161 15-12
N63-15852 13-29	COMPRESSION OF EARTH MAGNETIC FIELD DUE TO IMPACT
INTERPRETATION OF K SUB P INDEX AND M-REGION GEOMAGNETIC STORMS - MAGNETOPAUSE-SOLAR WIND INTERACTION N63-20633 20-29	OF NEUTRAL PARTICLES FROM THE SUN UPON DUTER MAGNETOSPHERE
A1-05 (6501-240)	EFFECT OF ION-ION DIFFUSION IN UPPER F-REGION ON
MAGNETOPLASMA CURRENT SHEATH DYNAMICS AND MAGNETOSONIC OSCILLATIONS IN MAGNETOPLASMAS	IONIZED AND NEUTRAL PARTICLE DISTRIBUTION IN ENTIRE MAGNETOSPHERE NASA-CR-50417 A63-18375 17-12
NASA-CR-50854 N63-20250 20-24	CIRCULATION AND DYNAMICS OF MAGNETOSPHERE IN TA
MAGNETOPLASMADYNAMIC CHANNEL FLOW WITH HALL CURRENTS	P-2761 PROBLEMS OF IONOSPHERE N63-19147 18-12
ARL-63-145 44-24	FIELD ALIGNED DUCTS AND PROPAGATION OF DECAMETER
MAGNETOPLASMADYNAMIC /MPD/ GENERATOR CF PLASMA GENERATOR	RADIATION FROM MAGNETOSPHERE OF JUPITER N63-19531 19-29
CLOSED CYCLE MAGNETOPLASMADVNAMIC ELECTRICAL POWER GENERATION WITH NONEQUILIBRIUM IONIZATION MND-2939 N63-21814 22-24	POSITRONS AS TRACERS TO STUDY HOTION OF TRAPPED ELECTRONS IN EARTH MAGNETOSPHERE
MAGNETORESISTANCE	IDA/HQ-63-1715
MAGNETORESISTANCE AND HALL EFFECT IN ALUMINUM SINGLE CRYSTALS AFOSR-951 N63-13547 08-25	ATMOSPHERIC CONSTITUTION AT MAGNETOSPHERIC LEVELS - HYDROGEN, HELIUM, ELECTRONS, AND IONS MASA-TM-X-50424 N63-21311 21-12
DC VOLTAGE IN FERRITE FILMS UNDER MICROWAVE	EXPORER XII OBSERVATIONS OF MAGNETOSPHERE BOUNDARY
EXCITATION - MAGNETORESISTANCE AND HALL EFFECT PIBHR I-108-62 N63-13645 08-23	AND SOLAR PLASMA DURING MAGNETIC STORM N63-22449 23-29
MAGNETORESISTIVE BEHAVIOR OF POLYCRYSTALLINE INDIUM PLATES IN MAGNETIC FIELDS	MAGNETOSTATIC FIELD POSITIONING OF FERRIMAGNETS IN RESONANT CAVITY TO
H63-20713 21-25	PRODUCE MAGNETOSTATIC OSCILLATION MODES AFCRL-63-16 N63-15C45 11-23
COMPARISON OF HALL EFFECT, RESISTIVITY AND MAGNETORESISTANCE OF URANIUM MONOSULFIDE WITH OTHER FERROMAGNETIC MATERIALS ANL-6731 N63-21706 22-19	MAGNETOSTRICTION CF ELECTROSTRICTION PIEZOELECTRIC-MAGNETOSTRICTIVE COUPLING IN DIGITAL
ANL-6731 N63-21706 22-19 TRANSVERSE MAGNETORESISTANCE OF HIGH TENSILE	DEVICES N63-10325 01-23
STRENGTH COPPER ALLOYS FOR USE IN CRYOGENIC ELECTRICAL APPARATUS N63-23289 24-18	APPARATUS FOR STUDY OF CAVITATION DAMAGE IN LIQUID METALS N63-10998 82-11
MAGNETOSONIC RESONANCE	MAGNETOSTRICTIVE GENERATION OF MICROWAVE PHONONS
CURRENT SHEATH DYNAMICS AND MAGNETOSONIC	BY THIN MAGNETIC FILMS AFCRL-63-57
NASA-CR-50854 N63-20250 20-24	HIGH TEMPERATURE MAGNETOSTRICTION IN IRON
MAGNETOSPHERE CF GEOMAGNETIC FIELD CF UPPER ATMOSPHERE	TIMOSTALD MARDON A N63-16901 AR 14-25
	The state of the s

MAR SA

MAGNETUTELLURIC PROFILING THEORY OF MAGNETOTELLURIC PROFILING - GEOLOGICAL	OPTIMUM WAITING PERIOD FOR AIRCRAFT ENGINE AND ELECTRONIC APPARATUS MAINTENANCE AND REPAIR
SURVEYING FTD-TT-62-1062/16264 N63-10343 01-15	M63-20491 20-
INVESTIGATION AND GEOPHYSICAL INTERPRETATIONS OF THE POWER SPECTRA OF THE MAGNETOTELLURIC FIELD OF THE EARTH NG3-11201 03-12	MODELS FOR AMALYZING AND PREDICTING MILITARY MAINTENANCE REQUIREMENTS - AIRCRAFT INSTRUMENTATION AND ELECTRONIC APPARATUS N63-20482 20
DIRECTION OF VARIABLE ELECTRIC & MAGNETIC FIELDS	DECISIONS OF TRADE-OFF BETWEEN COST, RELIABILITY
AT AUSTIN, TEXAS & TIME PHASE RELATION FOR MARROW BAND FREQUENCIES N63-12905 07-12	HAINTAINABILITY, AND SUPPLY RR-62THP-42 N63-20733 21-
IAGMETROM CF ELECTROM TUBE CF RESONATOR	TRAINING AND TRAINING EQUIPMENT REQUIREMENTS FOR FUTURE GROUND OPERATORS & MAINTENANCE PERSONNEL ADVANCED SPACE STATIONS
LARGE SIGNAL TRAVELING WAVE TUBES & AMPLIFIERS, DEPRESSED POTENTIAL COLLECTORS, ELECTRON BEAM GUNS	AMRL-TDR-63-67 M63-21366 22-
KLYSTRONS, LOW NOISE CRESTATRONS & MAGNETRONS RADC-TDR-63-8 N63-14001 09-20	PRECESSION CONTROL AND ORBIT MAINTENANCE SYSTEMS FOR ROTATING SPACE STATIONS NASA-CR-51729 N63-22174 23-
RADIO FREQUENCY INTERACTION PROPERTIES OF ANODE STRUCTURE SUITABLE FOR COLD-CATHODE HIGH-POMER MAGNETRONS	MORKSPACE CONFIGURATION EFFECT ON NUMBER PERFORMANCE IN REMOVING AND INSTALLING
IER SER. 60, ISSUE 455 N63-22041 22-09	TRANSFORMERS USING VARIOUS SCREWORIVERS AMRL-TOR-63-68 /I/ N63-22682 23-
HIGH PERVEANCE, LARGE DIAMETER HOLLOW BEAMS GENERATED FROM HAGNETROM INJECTION AND ELECTROSTATIC GUNS M63-22234 23-09	MEATHER CONDITIONS EFFECT ON AIRCRAFT MAINTENANC CREW IN ARCTIC AREAS
AGNUS EFFECT	AAL-TOR-63-18 M63-22718 23-
CF MISSILE DESIGN MAGNUS EFFECT ON ACCURACY AND STABILITY OF SPINNING FINNED BODY	INSTRUCTIONS AND PROGRAM FOR CHECKOUT AND MAINTENANCE TRAIMER ARRI-NERO-P-39 N63-23158 24-
BAL-1193 N63-15941 13-02	CHECKOUT AND MAINTENANCE TRAINER - DEVICE FOR
AINTAINABILITY DERIVATION OF MAINTAINABILITY REQUIREMENTS FOR MEAPON SYSTEMS	RESEARCH ON PROBLEMS OF ELECTRONIC MAINTENANCE / TRAINING & EVALUATION OF PERSONNEL ARL-MENO-P-35 M63-23159 24-
SP-216 963-15864 13-01	"MARMAL SIADISH OM ASSELL LINUX OF TO WORLD AND ASSEST
SPACE VEHICLE PROPELLANT MANAGEMENT - RELIABILITY, MAINTAINABILITY N63-16006 13-01	CF ANIMAL STUDY MAMMALIAN NETABOLISM AND RADIOBIOLOGY LAMS-2780 N63-10589 02-
SINTENANCE A CHECKOUT EQUIPMENT /CEFDAN/ AS SPACE MAINTENANCE F LOGISTICS	CIRCULATION IN MAMMALIAN HIBERMATION AAL-TOR-62-6 N63-17701 16-
AIR FORCE MAINTENANCE TECHNICAL DATA SYSTEM AMRL-TOR-62-85 N63-10094 01-01	SHIELDING MAMMALS AGAINST ICHIZING RADIATION JPRS-20964 N63-20905 21-
HUMAN PERFORMANCE IN THE ATLAS ENGINE MAINTENANCE	INFRARED RADIATION EMISSION FROM MANMALIAN CEREBRAL CORTEX N63-21263 21-
RON-2181-1002 N63-10546 01-14	NAM-MACHINE SYSTEM
ACCURACY OF AIR FORCE MAINTENANCE 66-1 REPORTING M63-10725 02-17	CF HUMAN ENGINEERING CF HUMAN FACTOR ADAPTIVE HAN-HACHINE HONARITHMETICAL INFORMATION
REPAIR VERSUS REPLACEMENT IN EQUIPMENT MAINTENANCE AT MISSILE RANGE	PROCESSING SYSTEM AFCRL-62-397 N63-10116 01-
PMR-TM-61-12 N63-12810 06-01 FIELD SURVEY OF SELF-TUTORING COURSE FOR ON-SITE	RESULTS OF HUMAN PERFORMANCE IN A MONITORING TAS AMRL-TOR-62-82 01-
TRAINING IN SAGE AN/FST-2 MAINTENANCE MATRIX-62-11 MG3-13164 07-08	HAN AMPLIFIER CONCEPT - MAN MACHINE SYSTEMS, BOD
MAINTENANCE DESIGN FOR WEAPON SYSTEMS -	KINEMATICS, SERVOMECHANISMS CAL-VO-1616-V-1 N63-10944 02-
DEVELOPMENT, PRODUCTION AND OPERATION WRL-TDR-62-9 M63-13811 09-01	EFFECT OF RANDOM VARIABLES OF DRIFT PARAMETER OF
MAINTENANCE & RELIABILITY - PERSONNEL REQUIREMENTS N63-17277 15-16	MRL-TDR-62-72 N63-11405 03-
AIRCRAFT MAINTENANCE ACCESSORY TO INDICATE	MAN-MACHINE SYSTEM EFFICIENCY - PSYCHOLOGY - MERVOUS SYSTEM - AUTOMATION
ATRIORTHINESS - ALARM PROJECT TRECOM-TR-63-8 M63-20111 20-15	JPRS-16404 N63-11593 04- EFFICIENCY OF AN OPERATORS WORK IN AUTOMATIC
HUMAN FACTORS & DESIGN OF MAINTENANCE FACILITY FOR ANJTSQ-47 MOBILE AIR TRAFFIC CONTROL COMMUNICATION SYSTEM	HAN-MACHINE SYSTEM NO-11394 O4-
HRB-SINGER-353-R-2 M63-20365 20-22	H63-11596 04-
AIRCRAFT INSTRUMENTATION AND ELECTRONIC APPARATUS MAINTENANCE - AIR AND SPACE TRAVEL APPLICATIONS M63-20479 20-01	COMPLEX MAN-MACHINE SYSTEMS, LOGICAL AND MATHEMATICAL CONCEPTS RELATED TO JPL/MASA SPACE FLIGHT OPERATIONS COMPLEX
GERMAN LUFTHANSA PROGRAM ELECTRONIC	JPL-TR-32-390 N63-13450 OB-
AND DEMAND OF SPARE PARTS N63-20480 20-01	ANALYSIS OF MAN-MACHINE SYSTEM - SYSTEMS ANALYSI MATRIX-NETWORK, DECISION MARING, AND HUMAN

BEHAVIOR AFOSR-4490 N63-14954 11-20	SOUNDING ROCKET MANAGEMENT N63-13260 07-01
PREDICTION OF TRAINING REQUIREMENTS FOR FUTURE WEAPONS SYSTEMS - MAN-MACHINE CONCEPTS, HUMAN	NASA SEVENTH SEMIANNUAL REPORT TO CONGRESS, JAN 1 THROUGH JUNE 30, 1962 N63-13635 DE-01
FACTORS HUMRRO-TR-83 N63-15564 12-14	MANAGEMENT SCIENCE AND MANAGING DNR-RM-53 N63-13737 08-01
ARMY-NAVY INSTRUMENTATION PROGRAM - MAN-MACHINE SYSTEM RH-2 HELICOPTER FLIGHT TEST ANIP-6-30-62 N63-15600 12-15	NETHORK-TYPE MANAGEMENT CONTROL SYSTEMS BIBLIOGRAPHY RM-3074-PR N63-15733 12-01
MYDELECTRIC CONTROL OF SERVO-BOOST SYSTEM TO POSITION OPERATOR HAND - MAN MACHINE SYSTEM ASD-TDR-63-70 N63-18806 18-16	SPACE VEHICLE PROPELLANT MANAGEMENY - RELIABILITY, MAINTAINABILITY N63-16006 13-01
MULTIMAN-MACHINE SIMULATOR, INFORMATION-PROCESSING AND DECISION-MAKING TASKS RESEARCH AMRL-TOR-63-48 N63-19739 19-10	TECHNOLOGICAL EQUIPMENT IN PUBLIC ADMINISTRATION - LEGAL CONSEQUENCES EUR-194.D N63-17237 15-01
HUMAN FACTORS IN MAN-MACHINE SYSTEMS AND AUTOMATION	ADMINISTRATION AND MANAGEMENT OF SPACE PROGRAM N63-17503 16-01
JPRS-20403 N63-19840 19-14 AUTOMATIC CONTROL OF MAN-MACHINE SYSTEM	NIMBUS PROJECT - MANAGEMENT PLANNING AND SYSTEMS ANALYSIS MASA-TM-X-50151 N63-18601 17-30
AMRL-TDR-63-78 N63-22595 23-20 HUMAN CONTROLLER-VEHICLE PERFORMANCE IMPROVEMENT -	NIMBUS PROJECT - MANAGEMENT PLANNING - CONTRACTORS N63-18603 17-30
DISPLAY VERSUS VEHICLE AUGMENTATION N63-23261 24-14	NIMBUS SATELLITE - SYSTEMS ANALYSIS - SENSORY RING CONTENTS - MANAGEMENT PLANNING
AIRCRAFT HANDLING QUALITIES - HUMAN RESPONSE- MACHINE SYSTEM CONCEPT N63-23262 24-14	N63-18606 17-30
MAN-MACHINE SYSTEM - HUMAN AND MACHINE INPUT- OUTPUT N63-23263 24-14	NIMBUS PROJECT - INTEGRATION AND TEST PROGRAM - MANAGEMENT PLANNING - CONTRACTOR RESPONSIBILITY N63-18607 17-30
HANDLING QUALITIES THEORY DERIVED FROM PILOT- VEHICLE SYSTEM CONSIDERATIONS N63-23264 24-14	SCIENTIFIC MANAGEMENT - RELIABILITY TESTING, USE OF NATHEMATICAL MODELS AND ECONOMIC ASPECTS OF PROCEDURES N63-21721 22-01
APPRAISAL OF MANS CAPABILITIES AND LIMITATIONS IN SPACE EXPLORATION SYSTEMS - LIFE SUPPORT REQUIREMENTS N63-23452 24-32	MANAGEMENT PLANNING CF PERT PROJECT STATISTICAL PARAMETERS IN PLANNING AIRCRAFT ENGINE
MAAGEMENT Sa program management	PRODUCTION COA-158 N63-20021 19-01
CF PERSONNEL CONGRESSIONAL HEARINGS ON SYSTEMS DEVELOPMENT AND MANAGEMENT - PART I N63-11213 03-01	MANDREL TO THE TRANSPORT OF THE PROPERTY OF THE TRANSPORT
CONGRESSIONAL HEARINGS ON SYSTEMS DEVELOPMENT AND MANAGEMENT - PART II N63-11214 03-01	HAMEUVER CF FLIGHT CONTROL CF GUIDANCE
CONGRESSIONAL HEARINGS ON SYSTEMS DEVELOPMENT AND MANAGEMENT - PART III N63-11215 03-01	TIME OPTIMAL TURNING MANEUVER OF SUPERSONIC AIRCRAFT MGL PAPER-22 N63-10020 01-06
CONGRESSIONAL HEARINGS ON SYSTEMS DEVELOPMENT AND MANAGEMENT - PART IV N63-11216 03-01	PERFORMANCE AND ABORT CONSIDERATIONS AFFECTING SELECTION OF INJECTION CONDITIONS FOR EARTH-MOON
CONGRESSIONAL HEARINGS ON SYSTEMS DEVELOPMENT AND MANAGEMENT - PART V N63-11217 03-01	TRAJECTORIES N63-10374 01-29 ABORT FROM A MANNED LUNAR LANDING AND RETURN TO
NASA AUTHORIZATION, 1963, PART 2, MANAGEMENT PHASE - CONGRESSIONAL HEARINGS	RENDEZVOUS IN A 50-MILE DRBIT NASA-TN-D-1514 N63-10904 02-32
N63-11659 04-01 PROLOG, A COMPUTER PROGRAM FOR PROJECT MANAGEMENT	SIMULATED PILOT PERFORMANCE OF RENDEZYOUS BETWEEN SPACECRAFT AND COMMANDED MODULE OF LOW THRUST NASA-TN-D-1613
RELATING ACTIVITIES TO PROJECT DURATION AND CALENDAR TIME UCRL-10491 N63-11798 04-20	SPACECRAFT ORBITAL RENDEZVOUS MANEUVER - MOTION EQUATION FOR DOCKING - SPACE MAINTENANCE
NORLANT PLAN NO. 24 FOR REORGANIZATION OF CONUS COMMUNICATION REGIONS N63-11808 04-01	AMRL-TDR-62-124 N63-15320 12-29
COST-BENEFIT ANALYSIS AS AID TO SYSTEM SELECTION FOR MISSION	TRANSPORT AIRPLANE NASA-TN-D-1801 N69-15774 13-04
SP-201 N63-12833 06-01	MANNED SPACE FLIGHT - VISUAL CAPABILITY IN SPACECRAFT RENDEZVOUS N63-17416 15-14
QUALITATIVE AND QUANTITATIVE PERSONNEL REQUIREMENT INFORMATION /QQPRI/ - USES, CONSTRAINTS, DATA, AND DECISION REPORTS	ORBITAL MANEUVERS WITH FINITE THRUST ROCKETS ASD-TDR-62-860 N63-17563 16-20
MRL-TDR-62-4 N63-13146 07-01 DEVELOPMENT OF SOUNDING ROCKETS IN JAPAN - RADAR	PROPULSION AND CONTROL BELT FOR ASTRONAUT
AND OPTICAL TRACKING, MANAGEMENT, AERODYNAHICS, ROCKOON, AND ELECTRONIC EQUIPMENT NASA-TT-F-87 07-04	D7123-953002 N63-18246 17-14 PILOT ERROR IN SPACE RENDEZVOUS MANEUVER FROM
THE THE REAL PROPERTY OF STREET STREET, AND STREET, AN	NOISE INTERFERENCE OF RADAR SYSTEM

NASA-TN-D-1619 N63-1	19176	18-14	AIAA PAPER-63-132 N63-19037	18-32
RENDEZVOUS COMPATIBLE SPACECRAFT ORBIT FOR 150 TO 850-KM REGION			MANNED SPACE FLIGHT PHYSIOLOGICAL HEAT PROBLEMS OF SPACE TRAVEL WGL PAPER-64 N63-10059	01-16
NASA-TM-X-50230 N63-2	SOLAD	20-29	WGL PAPER-64 N63-10059	01-10
MANGAMESE ELECTRON SPIN RESONANCE IN P	PERIODI 13124	C 07-25	BIODYNAMIC PROBLEMS OF AIR AND SPACE TRAVEL MGL PAPER-66 N63-10061	01-16
GROUP 11-A/VI-B CUMPOUNDS NB3-1	13124	01-25	WEIGHTLESS MAN - SINGLE IMPULSE TRAJECTORIES	FOR
DEFORMABLE ALUMINUM ALLOYS - HOT CRACK QUENCHING, INGOT CASTING, IRON, SILICO			ORBITAL WORKERS " AMRL-TDR-62-103 N63-10130	01-32
MANGANESE, BERYLLIUM, AND MAGNESIUM FTD-TT-62-1272/16264 N63-1	13615	08-18	MERCURY PROJECT - ROLE OF ASTRONAUT IN SPACE	
HOT CRACKING IN V95 TYPE ALUMINUM ALLO	I TO STATE OF THE PARTY OF THE		N63-10243	01-14
RESISTANCE DURING INGOT CASTING - MANG SILICON, AND HAGNESIUM CONTENT OF THE			THE MANNED LUNAR MISSION - APOLLO PROJECT ARS PAPER-2464-62 N63-10251	01-29
			MEDICO-BIOLOGICAL CONTROL IN COSMIC FLIGHT	
GROUND STATE SPLITTING AND OPTICAL SPE MANGANESE ION AND FERRIC ION IN CUBIC			JPRS-16205 N63-10363	01-16
FIELD WITH SPIN ORBIT COUPLING			EARTH SATELLITE CONTROL AND CONTROL SYSTEMS	477
AFCRL-63-227 N63-1		08-23	MANNED SPACE ENVIRONMENT - COMMUNICATIONS MRL-TDR-62-14 N63-10389	01-01
DISPOSITION OF SODIUM, MANGANESE AND A	ALUMINU	n Al	GAGARINS SPACE FLIGHT	
USNRDL-TR-650 N63-1	18740	17-07	FTD-TT-62-844/162 N63-10440	01-32
OPTIMIZATION OF MANGANESE CONTENT OF B	BRAZING	ALLOY	THE CHALLENGE OF SPACE EXPLORATION	
TO INCREASE LAP SHEAR STRENGTH, CORROS RESISTANCE, & BRAZEABILITY		HELDT	N63-10495	01-29
ERR-FW-178 N63-2	20957	21-18	RELIABILITY MODEL AND ANALYSIS FOR PROJECT	714
MANGANESE ALLOY			MERCURY 3-ORBIT MANNED AND UNMANNED MISSION NASA-TN-D-1558 N63-10536	01 20
ORDERING IN NICKEL-MANGANESE PHASE TRA	ANSFORM	ATION	NASA-TN-D-1558 N63-10536	01-32
UCRL-7210 . N63-1		14-18	MANNED SPACE FLIGHT - APOLLO AND MERCURY PRO N63-10553	JECTS 01-32
CYCLIC MATERIAL DAMPING IN THIN WALLED			CAN 1 (F. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	BAG
SPECIMENS OF MANGANESE-COPPER ALLOYS S AXIAL & INTERNAL PRESSURE LOADING			CREW PERFORMANCE DURING SIMULATED LUNAR MISS ER-12693 N63-10782	10N 02-14
ASD-TDR-63-647 N63-2	22343	23-33	ABORT FROM A MANNED LUNAR LANDING AND RETURN	TO
MAGNETIC PROPERTIES OF FERROMAGNETIC B CUBIC ALLOYS OF COPPER & MANGANESE	BODY-CE	NTERED	RENDEZVOUS IN A 50-MILE DRBIT NASA-TN-D-1514 N63-10904	02-32
N63-2	23591	24-18		
ANGANESE COMPOUND HEAT AND FREE ENERGIES OF FORMATION OF	F LEAD	AND	STATEMENT OF MASA ADMINISTRATOR BEFORE HOUSE COMMITTEE ON SCIENCE & ASTRONAUTICS - NASA PROGRAMS, SPACE SCIENCE, ASTRONAUTICS	
MANGANESE VANADATES			N63-10910	02-29
BM-RI-6197 N63-1 DIRECT CURRENT ELECTROLUMINESCENCE BY		07-23	BIOTELEMETRY FOR SPACE FLIGHTS JPRS-16600 N63-10980	02-08
ACTIVATED ALUMINUM OXIDE ANODIC METAL		20-07	APOLLO PROJECT - MANNED LUNAR LANDING	
CRYSTAL STRUCTURE OF MANGANESE ARSENID			N63-11146	
40-DEG C N63-2	22182		STRATO-LAB BALLOON PROGRAM AND ITS CONTRIBUT MANNED SPACE FLIGHT N63-11157	
THEORY OF FOLDING DEFORMATIONS IN EXPA STRUCTURES, TOROIDAL SHELLS	ANDABLE		MERCURY-ATLAS SPACE FLIGHT - ASTRONAUT REPOR N63-11159	
MASA-TN-D-1690 N63-1	11056	03-34	The second secon	
ANNIGH PROJECT			SPACE FLIGHTS AND BIOLOGY IN OUTER SPACE - S REPORT	DVIET
MANHIGH PROJECT, LIFE SUPPORT SYSTEMS, PERFORMANCE, PHYSIOLOGY, PSYCHOLOGY	CREW		JPRS-16776 N63-11203	03-16
N63-1	11155	03-04	SIMULATION PROBLEMS - MANNED LUNAR LANDING ARS PAPER-2691-62 N63-11274	03-29
MAN1FOLD				183.
SHIFT INVARIANT LINEAR MANIFOLDS NRC-359 N63-1	12387	06-20	PSYCHOPHYSIOLOGICAL EFFECTS OF PROLONGED MAN SPACE FLIGHT - WEIGHTLESSNESS, COSMIC RAYS ARL-TDR-62-28	04-16
AMIPULATOR LUNAR TELEVISION CAMERA THREE MOTION M DESIGN, CONSTRUCTION, AND TESTING	AANIPUL	ATOR -	ATTACHMENT OF EKG ELECTRODES FOR SPACE FLIGH A10-62-200 N63-11834	
NASA-CR-50992 N63-2	21118	21-08	STOMEDICAL CONTROL IN SPACE FLIGHT - VOSTOK	
MANN-WHITNEY-WILCOXON U TEST EXPONENTIAL AND RECTANGULAR STATISTICA		LATION	A10-62-201 N63-11835	04-16
DETERMINED BY MANN-WHITNEY-WILCOXON U			PHYSIOLOGICAL RESPONSES OF ASTRONAUTS DURING	
MANNED ORBITAL SPACE STATION /HOSS/			AID-62-202 N63-11836	04-16
STRUCTURES AND STRUCTURAL COMPOSITE HA HANNED ORBITAL SPACE STATIONS			REPORT OF POSTFLIGHT MEDICAL EXAMINATIONS OF SOVIET COSMONAUT TITOV	
MATERIAL NO. 10	18904	18-32	AID-62-204 N63-11837	04-16
	ALC: U.S.			

NUTRITIONAL ASPECTS OF MANNED SPACE FLIGHT

MULTIPURPOSE, MANNED, CRBITAL SPACE STATION DESIGN

15-10

15-14

MANNED SPACE FLIGHT PROGRESS - 1962.

SPACE FLIGHT

SPACE FLIGHT

SPACE FLIGHT

FI TOHT

FROM MERCURY PROJECT TO INTERPLANETARY MANNED

EXPERIENCE WITH MERCURY PROJECT - MANNED SPACE

MANNED SPACE FLIGHT AND PREFLIGHT OPERATIONS

FLIGHT CONTROL, MONITORING, AND RECOVERY - MANNED

SPACE STATION LOGISTICS AND OPERATIONS .

FLIGHT SIMULATION IN CREW TRAINING - MANNED SPACE FLIGHT N63-17412 15-14 N63-12482 06-16 OBJECTIVES OF SPACE BIOLOGY - SEARCH FOR EXTRA-TERRESTRIAL LIFE, SUPPORT OF MANNED SPACE FLIGHT, STUDY OF ORGANISM-ENVIRONMENT RELATIONSHIPS MANNED SPACE FLIGHT - SPACECRAFT DEVELOPMENT N65-17613 15-10 NA3-1283A 06-16 MANNED SPACE FLIGHT - SIMULATION AND TRAINING FACILITIES - GEMINI AND APOLLO PROJECTS LIFE SUPPORT FOR MANNED SPACE FLIGHT NASA PROGRAMS N63-12837 NASA MANNED SPACE FLIGHT PROGRAMS - MERCURY, ONE-MANNED SPACE FLIGHT - GROUND CONTROL DAY MISSIONS, GEMINI, AND APOLLO N63-17415 N63-12838 06-32 MANNED SPACE FLIGHT - VISUAL CAPABILITY 1 CREW PERFORMANCE ON SIMULATED LUNAR MISSION SPACECRAFT RENDEZVOUS N63-17416 07-14 TAS PAPER-63-18 N63-12885 HELICOPTER AND VTOL TRANSPORT DESIGN - MANNED SPACE FLIGHT N63-17417 MANNED PLANETARY SPACE FLIGHT - MISSION ANALYSIS N63-12900 07-29 IAS-PAPER-63-84 EXHAUST JETS - MANNED SPACE FLIGHT AERODYNAMICS OF DISK REENTRY CONFIGURATIONS, FOR MANNED SPACE FLIGHT, WITH ELLIPTIC CROSS SECTIONS AND THICKNESS DIAMETER RATIOS OF 0.225 AND 0.325 N63-17418 ELECTROENCEPHALOGRAPHY IN SIMULATED STRESSES OF SPACE FLIGHT WITH REFERENCE TO VIBRATION PROBLEMS N63-13913 09-32 NASA-TM-X-566 NASA-CR-50206 RADIATION EFFECT ON MISSION OF MAN IN SPACE N63-15115 PREPARATIONS FOR MA-9 MANNED SPACEFLIGHT - MERCURY PROJECT NEWS RELEASE N63-17743 16-32 SOVIET MANNED SPACE FLIGHT - RESULTS OF MEDICAL & PHYSIOLOGICAL MONITORING OF COSMONAUTS IN VOSTOK 1 & VOSTOK 2 - LIFE SUPPORT SYSTEMS ASTRONAUTS OF NASA MANNED SPACE FLIGHT TEAM NASA-EP-11 N63-17926 16-14 FTD-TT-62-1619/162 N63-15658 SPACE SCIENCE - EARTH-LUNAR MISSIONS - HIGH-ENERGY PROPELLANTS AND NUCLEAR PROPULSION SYSTEMS IN MANNED SPACE FLIGHT N63-15983 13-29 SPACE SCIENCE - SPACECRAFT DESIGN FOR MANNED SPACE FLIGHT NA3-16012 13-14 SPACE SCIENCE - PHOBOS SPACE STATION FOR MARS EXPLORATION PRIOR TO MANNED SPACE FLIGHT TO MARS **FLIGHT** RADIATION HAZARDS TO MEN IN SPACE - VAN ALLEN BELTS, ELECTROMAGNETIC RADIATION, SOLAR FLARE PROTONS, GALACTIC COSMIC PARTICLES N63-16171 13-32 AGARD-403 P-2691 LAUNCH VEHICLE MODELS FOR MANNED LUNAR SPACE - BUFFET PRESSURE TEST NASA-TN-0-1633 N63-16289 13-02 LAUNCH VEHICLE AND FACILITY FOR MANNED LUNAR 14-30 LANDING PROGRAM N63-16424 LUNAR PROGRAM - MERCURY, GEMINI, AND APOLLO PROJECTS OF MANNED SPACE FLIGHT PROGRAM NASA-EP-7 REPORT OF MAJOR GORDON COOPER ON SPACE FLIGHT IN FAITH 7 /MERCURY PROJECT/ ABORT TECHNIQUES FOR MANNED SPACEFLIGHT AT LAUNCH, SUBORBITAL, ESCAPE AND SUPERORBITAL VELOCITIES 15-32 POTENTIAL FOR TELEMETRY IN RECORDING OF BRAIN WAVES FROM ANIMALS AND MEN EXPOSED TO STRESSES OF SPACE FLIGHT - BIOTELEMETRY MANNED SPACE FLIGHT PERCEPTUAL PHENOMENA THEORIES - VISUAL PERCEPTION PROBLEM NASA-CR-50205 N63-17206 15-16

MEDICAL-BIOLOGICAL PROBLEMS OF MANNED SPACEFLIGHTS - EFFECTS OF OVERLOAD, WEIGHTLESSNESS AND RADIATION N63-18452 17-16 HAZARD OF PROTON-INDUCED IONOSPHERIC RADIATION TO SPACE FLIGHT SAFETY N63-16775 17-2 SPACE RESEARCH REQUIREMENTS - SPACE LABORATORY FOR PROVIDING INFORMATION FOR FUTURE MANNED SPACE IN-FLIGHT SIMULATION PERTIMENT TO MANNED SPACE EXPLORATION - LAUNCH, DRBITAL, REENTRY & LANDING APPROACH PHASES N63-18840 RECENT PROGRESS AND FUTURE PROBLEMS IN SPACE BIOMEDICINE & MANNED SPACE FLIGHT N63-18936 18-16 BIOLOGICAL PROBLEMS OF SPACE FLIGHT - CONTROLLING AIR SUPPLY OF CLOSED SYSTEMS N63-18943 18-1 PSYCHOLOGICAL AND PHYSIOLOGICAL PROBLEMS OF MANNED SPACEFLIGHT N63-18958 18-16 VISUAL PROBLEMS OF ARMED FORCES & SPACE TRAVEL + RECONNAISSANCE, INTERPRETATION, AND BATTLEFIELD SURVEILLANCE RELATIONS TO HUMAN VISUAL PERCEPTION N63-19241 18-14 SENSORY AND PERCEPTUAL SENSE PROBLEMS OF MANNED N63-19248 MANNED SPACEFLIGHT - RESULTS OF RECENT, EXPLORATION N63-20647 20-32 QUALITY PROGRAM EVALUATION PROCEDURES FOR PROBLEM IDENTIFICATION AND RELIABILITY AND SAFETY MEED OF IANNED SPACE FLIGHT SYSTEMS NASA-SP-6003 N63-21435 22-20 MERCURY PROJECT SUMMARY - RESULTS OF FOURTH MANNED ORBITAL FLIGHT NASA-SP-45 N63-21951 22-01 MANNED SPACE FLIGHT - SUMMARY M63-22118 22-29 SECOND NANNED SPACE FLIGHT HEETING M63-23201 24-01

N63-17402 15-32

- MANNED N63-17409

15-32

15-32

15-32

15-30

N63-17403

N63-17404

N63-17410

N63-17411

SYSTEMS ENGINEERING FOR MANNED SPACE FLIGHT N63-23202 24-32	SPACE VEHICLES AMRL-TDR-62-128 N63-13143 07-16
MILITARY ASPECTS OF MANNED SPACE FLIGHT - COMMAND AND CONTROL OF STRIKE FORCES N63-23203 24-32	LUNAR SURFACE BALLISTICS, HAZARDS OF SPACECRAFT LANDING OR LAUNCHING, PARTICLES - EXHAUST GASES NASA-TN-0-1526 N63-13515 08-29
REQUIREMENTS FOR FUTURE MANNED SPACE FLIGHT COMMUNICATIONS N63-23205 24-32	RADIATION EFFECT ON HISSION OF HAN IN SPACE
FLEXIBLE SPACE VEHICLE SYSTEM TO EXPLORE PROBLEMS OF MANNED OPERATION IN SPACE - GEMINI PROGRAM N63-23206 24-32	N63-15115 11-28 WASTE DISPOSAL SYSTEM FOR 3-MAN AEROSPACE MISSION AMRL-TDR-63-4 12-16
RADIATION HAZARDS TO MANNED SPACE FLIGHT -	STABILIZATION AND CONTROL SYSTEM FOR MANNED
SHIELDING CONSIDERATIONS N63-23218 24-28 VEHICLES FOR CIRCULAR AND HYPERBOLIC ENTRY	LUNAR VEHICLE - ATTITUDE CONTROL N63-15533 12-32
BY MANNED SPACECRAFT N63-23223 24-02	LIFE SUPPORT SYSTEMS FOR MANNED SPACECRAFT CP-63-693 N63-15707 12-16
FLIGHT SAFETY IN MANNED SPACE FLIGHT N63-23226 24-14	MANNED SPACECRAFT LAUNCH VEHICLE SUITABILITY -
MISSION CONTROL FOR MANNED SPACE FLIGHT N63-23227 24-32	SCIENCE N63-16004 13-30
SPACE TRANSPORTATION SYSTEMS FOR MANNED SPACE FLIGHT SUPPORT N63-23231 24-30	SPACE EXPLORATION BY SATELLITES - MANNED SPACE FLIGHT AND X-15 AIRCRAFT N63-17392 15-32
MANNED SPACE FLIGHT TO MARS & VENUS IN DECADE 1970 N63-23232 24-32	MANNED ORBITAL SPACE FLIGHT - OPERATIONS, SUPPORT, DESIGN, AND DEVELOPMENT OF CONCEPTS - SPACECRAFT DESIGN AND MISSION ANALYSIS N63-17401 15-32
MANS UTILITY IN MILITARY SPACE MISSIONS N63-23233 24-30	PROJECT GEMINI DESIGN PHILOSOPHY - MANNED SPACE FLIGHT N63-17405 15-32
ENERGY CONVERSION SYSTEM FOR MANNED SPACE FLIGHT N63-23238 24-01	SAFETY DEVICES FOR MERCURY PROJECT - MANNED SPACE FLIGHT N63-17406 15-30
LIFE SUPPORT SYSTEMS FOR MANNED SPACE FLIGHT N63-23239 24-16	EARTH ORBITING SPACE STATIONS - MANNED SPACE FLIGHT N63-17407 15-10
FUTURE SPACECRAFT DESIGN FOR MANNED FLIGHT N63-23241 24-30	SPACE STATION DESIGN - MANNED SPACE FLIGHT N63-17408 15-10
APPRAISAL OF MANS CAPABILITIES AND LIMITATIONS IN SPACE EXPLORATION SYSTEMS - LIFE SUPPORT	SMALL ROCKET LIFT DEVICE FOR MANNED SPACECRAFT -
REQUIREMENTS N63-23452 24-32	PARAGLIDER TRECOM-TR-63-12 N63-17941 16-27
LIFE SUPPORT SYSTEMS IN MANNED SPACE FLIGHT — MEDICAL AND BIOLOGICAL ASPECTS OF VOSTOK-3 AND VOSTOK-4 SPACECRAFT	GAS DETECTION, ANALYSIS, AND MONITORING METHODS IN MANNED SPACECRAFT ADR-04-06-62.1 N63-17944 16-15
A10-62-191 N63-23523 24-32	VOSTOK I MANNED SPACE FLIGHT N63-18451 17-32
FOUR-DAY SPACE FLIGHT OF VOSTOK III N63-23675 24-30	VOSTOK I MANNED SPACE FLIGHT - COSMONAUT PERFORMANCE N63-18454 17-14
MANNED SPACECRAFT	
CF UMMANNED SPACECRAFT QUASI-RESERVE AND SUPPLY-FREE BIOLOGICAL SUPPORT SYSTEMS FOR SPACE TRAVELERS	BIBLIOGRAPHY - SOVIET SATELLITES AND SPACE SHIPS SATELLITE OBSERVATIONS, MEASUREMENTS AND PHOTOGRAPHY - MANNED SPACEFLIGHT EXPERIMENTS
MGL PAPER-65 N63-10060 01-16	N63-18455 17-32
MERCURY PROJECT - HISTORY, R&D, PROBLEMS, SPACECRAFT, IMPACT, RECOVERY N63-10244 01-32	GUIDANCE PHENOMENA FOR MANNED NONSTOP ROUNDTRIP TO MARS BY ANALYSIS OF TRAJECTORY AND ITS SENSITIVITY TO SMALL PERTURBATIONS No3-18633 17-22
MANNED CONTROL OF LARGE SPACE BOOSTERS N63-10394 01-31	REPAIR OF LEAKAGE IN MANNED SPACE VEHICLE CABIN -
POTASSIUM SUPEROXIDE CANISTER EVALUATION FOR MANNED SPACE VEHICLES - LIFE SUPPORT SYSTEMS	PLASTIC & ADHESIVE SEALS ASD-TDR-62-1015 N63-18832 18-30
NA-62-283 N63-11341 03-16	SOVIET TANDEM SPACEFLIGHT - VOSTOK-III AND IV SPACECRAFTS
VISUAL OBSERVATIONS OF NIGHTGLOW FROM MANNED SPACECRAFT N63-11414 03-12	STL-TRANS-70 N63-18841 18-32
GAS PRODUCTION BY STORED HUMAN WASTES IN A SIMULATED MANNED SPACECRAFT N63-11481 03-16	EUROPEAN COOPERATION IN SPACEFLIGHT ENGINEERING - EARTH SATELLITES, MANNED SPACECRAFT FOR EARTH - ORBIT TRAFFIC - MANNED INTERPLANETARY SPACECRAFT NO3-18916 18-32
NASA AUTHORIZATION, 1963, PART 2, MANAGEMENT PHASE - CONGRESSIONAL HEARINGS N63-11659 04-01	SELECTION OF INSTRUMENTATION AND PERSONNEL FOR MANNED ORBITAL SPACE LABORATORIES
APPLICATION OF SNAP-2 TO MANNED ORBITAL SPACE	ATAA PAPER-63-135 N63-19059 18-32
STATIONS AI-7950 N63-12311 05-06	CONTROLLED ROTATION AND STABILIZATION DEVICE FOR MAN IN MOTION BETWEEN SPACECRAFTS - ORBITAL WORKER AMRL-MEMO-P-21 N63-19143 18-14
MANNED PLANETARY SPACE FLIGHT - MISSION ANALYSIS 1AS-PAPER-63-84 07-29	GRAVITY DESIGN REQUIREMENTS FOR SPACE STATIONS AND MANNED SPACECRAFT N63-19492 19-16
PERSONNEL RESTRAINT STUDIES FOR ADVANCED MANNED	Magazine Marie Televisia de Armio Seaso Alfred Sonas

6

9

6

SPACECRAFT MATERIALS - MANUFACTURE OF BEARINGS, ACCELEROMETERS AND ELECTRONIC EQUIPMENT 863-16003 13-17

OPERATIONAL ASPECTS OF WEIGHTLESSNESS IN NAMED SPACE FLIGHT N63-19493 19-16	DECISION REPORTS ANAMA ME MITAMORIANO MATERIA
HUMAN QUALIFICATIONS - SELECTION AND TRAINING FOR SPACE FLIGHT N63-19637 19-14	MANPOWER PREDICTION TECHNIQUE VALIDITY - PERSONNEL SUBSYSTEMS TDR-169/3741-08/TN-1 MA3-20142 20-01
NUCLEAR ROCKET PROPULSION APPLIED TO MANNED MARS SPACECRAFT N63-20120 20-27	CONTRIBUTION OF EDUCATIONAL AND RESEARCH PROGRAMS
LIFE SUPPORT SYSTEMS IN OUTER SPACE — UTILIZATION OF HUMAN URINE AND ALGAE DURING SPACE EXPLORATION NASA-CR-50860 N63-20248 20-16	TO MAMPOWER AND ADVANCES IN SPACE SCIENCE - MASA PROGRAM N63-21138 21-01 MAMMAL CONTROL
ORAG COMPENSATION, MEASUREMENT, AMD REDUCTION FOR MANNED SATELLITES M63-20511 20-32	MANNED CONTROL OF LARGE SPACE BOOSTERS 863-10394 01-31
ORBITAL FLIGHT EXPERIENCE - PRELAUNCH TO REENTRY - ARROSPACE MEDICINE M63-20555 20-16	EFFECT OF RANDOM VARIABLES OF DRIFT PARAMETER ON HUMAN CONTROL OF STOCHASTIC PROCESS MEL-TDR-62-72 Ma3-11405 03-14
MULTIPLE USES OF FOOD, WATER, AND PERSONNEL IN MANNED SPACE FLIGHT - AEROSPACE HEDICINE M63-20576 20-16	EFFECTS OF MANUAL ATTACK-DISPLAY MOISE FILTERING ON PILOT TRACKING PERFORMANCE NACA-RH-ASSE21 N63-12504 06-08
PHYSIOLOGICAL EFFECT OF SPACE FLIGHT ON HUMAN BODY	PSYCHOMETRICS - SIMULTAMEOUS ACTIVATION OF
NASA-TT-F-186 N63-20613 20-16 VOSTOK SERIES OF SPACEFLIGHTS - CUMULATIVE DATA	BINAMUAL CONTROLS FRANCES AND TRAIL MOTELING AND ANTI-TOR-63-6 223091 QUARRAN YOUNGS-15447 YOL2-14
M63-20740 21-32	ADAPTIVE CHARACTERISTICS OF MANUAL TRACKING NASA-CR-50297 N63-18286 17-14
NAMNED SPACEFLIGHT PROGRAM OF NASA N63-21130 21-29	SYSTEMS ON HORIZONTAL TAIL LOAD
LARGE LAUNCH VEHICLES IN MANNED SPACE PROGRAM - NASA PROGRAM N63-21132 21-30	NASA-TN-D-2090 NAMM-PARTICLE THEORY - NOTION AS INTRINSIC
MUMAN FACTOR IN MANNED SPACE FLIGHT - MASA PROGRAM M63-21133 21-14	STATISTICAL DISTRIBUTION OF SIGNALS OF SIMPLE CONFENSATION FRAMAL CONTROL SYSTEM ASD-TDR-63-85 N63-22390 23-06
NEED FOR MANNED SPACECRAFT ON & AROUND MOON, IN INTERPLANETARY SPACE, & ON PLANETS MASA-AL-C-4063 21-29	MANUAL CONTROL OF LAUNCH VEHICLE SYSTEMS TIPERON POLITIONS THE PROPERTY OF A PARTY OF THE PROPERTY OF A PARTY OF THE PARTY
BIBLIOGRAPHY - MANNED MILITARY MISSIONS IN ORBITAL	COMPLEX VEHICLE CONTROL - HUMAN OPERATOR 100-281 24-14
SPACE 58-63-27 N63-22807 23-32	MAMUAL CONTROL AS A STOCHASTIC PROCESS MA3-23253 24-14
MANNED LUNAR FLIGHT - LUNAR SPACECRAFT, PHYSIOLOGICAL ASPECTS, LUNAR ENVIRONMENT N63-22041 23-32	HUMAN OPERATOR ACTING THROUGH AMPLIFIERS AND AMPLIFIERS WITH CONTROL-DISPLAY COMPATIBILITY NG3-23254 24-14
ON BOARD PROPULSION SYSTEMS DESIGN FOR MANNED SPACECRAFT N63-23212 24-27	MANUAL CONTROL - TRANSMISSION OF INFORMATION BETWEEN RAM AND CONTROL SYSTEM
EFFECT OF MATERIALS ON ATMOSPHERIC CONTAMINATION IN MANNED SPACECRAFT - OUTGASSING AND FLANMABILITY	1 May
M63-23215 24-14 INFORMATION ORGANIZATION FOR OPERATOR	TRACKING - HUMAN PERFORMANCE N63-23250 24-14
UNDERSTANDING OF CONTROL-DISPLAY DESIGN IN MANNED SPACE SYSTEM DEVELOPMENT N63-23216 24-30	HUMAN COMPENSATORY TRACKING PERFORMANCE AS A FUNCTION OF FILTER TIME CONSTANT AND CONTROL GAIN MAS-23259 24-14
RELIABILITY ENGINEERING IN MANNED SPACE SYSTEMS N63-23224 24-30	INERTIAL CROSS-COUPLING EFFECTS ON MANUAL 24 YA CONTROL - HUMAN VERSUS AUTOMATIC CONTROL
RADIATION SHIELDING FOR MANNED SPACECRAFT M63-23225 24-28	M63-23245 24-14 MULTI-DEGREE-OF-FREEDOM VEHICLE CONTROL SYSTEM -
MEASURING OR COMPENSATING ATMOSPHERIC DRAG IN MANMED SATELLITE M63-23782 24-30	EFFECTIVE HUMAN MONITORING OF INFORMATION TO CONTROL SYSTEM 863-23266 24-14
SEALING PROBLEMS WITH MANNED SPACECRAFT MASA-RP-39 N63-23795 24-30	CF INDUSTRY HE HETHODS FOR LIGHTWEIGHT NETAL FOIL
MONETER DECAMANDER OF THE PROPERTY OF THE PROP	TO 1959 - PART 2, JULY TO DEC - AVERAGE CONDITIONS
R-IST7 CARACTER AND LANGUAGE MANORETER MANORETER MANORETER MASS 19774 (19-15	OF IRON AND ZINC PROCESS IN SIMELE CRYSTALS OF IRON AND ZINC M63-11912 64-18
MANOMETERS - PRESSURE GAUGES FOR SUBSORIC WIND TUNNELS N63-20004 21-15	NETAL FOIL NEAT EXCHANGERS - NAMUFACTURING METHODS 843-12111 105-13
MPONER F PERSONNEL LINEAR PROGRAMMING TECHNIQUES APPLIED TO ECONOMIC	SPACE SCIENCE - SPACE VEHICLES - ROCKET SYSTEM MANUFACTURE AND ASSEMBLY, GROWN AND FLIGHT TESTING NA3-14000 19-17
FORECASTING JPRS-17405 N63-12327 05-20	SPACECRAFT MATERIALS - MANUFACTURE OF BEARINGS,

QUALITATIVE AND QUANTITATIVE PERSONNEL REQUIREMENT INFORMATION /QQPRI/ - USES, CONSTRAINTS, DATA, AND

NEW PATH FROM PATTERSON MAP TO ELECTRON DENSITY MAP - VECTOR VERIFICATION

DESIGN CONFIGURATION IN MANUFACTU CAVITATION, OXIDATION, BONDING -			AFCRL-TDR-63-243 N63-16265	13-2
PLASTIC FLOW CAL-NH-1559-P-4			ESTIMATED FREQUENCIES OF SPECIFIED CLOUD AND WITHIN SPECIFIED RANGE - WEATHER MAPS	SLON
MATERIALS SCIENCE - EMBRITTLEMENT PARTICLE BEAM EFFECTS & STRAIN RA			N63-16266 INFRARED PHOTOMETRIC CONTOUR MAPPING OF PLAN	
MATERIALS MANUFACTURING CAL-NM-1559-P-3	N63-18023	16-17	VENUS NASA-CR-50149 N63-17216	15-2
TITANIUM TANKAGE DEVELOPMENT - EN MANUFACTURING - QUALITY CONTROL	GINEERING	MUNIA	ASTRONOMICAL CHARACTERISTICS OF TUNGUSK METER AND MAP OF FALL AREA	ORITE
\$10-63-846	N63-18991	18-17	STL-TRANS-71 N63-17244	15-0
GERMANIUM-ALLDY POWER TRANSISTOR ENGINEERING	N63-21192	21-09	SPACE RADIATION MAP - INNER AND OUTER RADIAT BELT, AURORAL ZONE, INTERPLANETARY SPACE N63-18145	
MANY-BODY PROBLEM CF THREE-BODY PROBLEM CF TWO-BODY PROBLEM		-104	VENUS - HIGH RESOLUTION MAP OF BRIGHTNESS TEMPERATURE FROM HALE TELESCOPE OBSERVATIONS	JUN JUN
DIELECTRIC FUNCTION FOR CLASSICAL SYSTEMS - LIOUVILLE THEOREM MATT-134	MANY-BODY N63-11704	04-24	NASA-CR-50464 N63-18340 RADAR MAPS FOR WEATHER FORECASTING	17-2
COLLISION LIFETIMES AND LIFETIME			WORK MAN IN THE LEASE NO. 1944 N63-19675 1	
BODY AND MANY-BODY BREAKUP PROCES		17-23	RECORD AND WEATHER MAP DETERMINATION OF CORRELATION BETWEEN TOTAL CLOUD AMOUNT AND OBJECTIVE SYNOPTIC PARAMETERS	
THE THREE- OR MANY-BODY PROBLEM -	ANNOTATED	NASA .	AFCRL-63-868 N63-21614	22-2
BIBLIOGRAPHY SID-63-157			ATLAS OF STARS FROM 30 DEGREES NORTH TO POLE	
MANY-PARTICLE THEORY MANY-PARTICLE THEORY - MOTION AS PROPERTY OF A PARTICLE, INDEPENDE	INTRINSIC		OF STELLAR FIELD N63-22383 INFORMATION PRESENTATION PARAMETERS OF VISUAL DISPLAYS OF MAPS, LINEAR GRAPHS, AND TABLES	
MOTIVE FORCES - APPLICATIONS AEC-TR-3406	N63-12233	05-23	RADC-TDR-63-378 N63-23579	24-2
DENSITY & MOTION OF SPHERICAL SWA ABOUT FIXED ATTRACTING MASS RELAT OF DUST CLOUDS NEAR STABLE L-POIN NRC-351	ED TO OBSE	RVATION	MAPPING SA CONFORMAL MAPPING CF CARTOGRAPHY CF PHOTOGRAMMETRY CF TOPOGRAPHY	
PRECIPITATE CLUSTERING IN BINARY SIZE RELATED TO AGING TIME IN QUE			MAPPING BY A CROSS-CORRELATION ANTENNA SYSTEM PARTIALLY COHERENT RADIO SOURCES N63-10684	02-0
MANY-PARTICLE THEORY OF INTERACTI			LOGICAL NET MECHANIZATION FOR TIME-OPTIMAL REGULATION - MAPPING FUNCTION	00.00 00.00
CRYSTALS ANL-6744	N63-19730	19-25	NASA-TN-D-1678 N63-10952	02-2
MAP SA LUNAR MAP			MAPPING OF PHYSICAL CONSTRAINTS FOR SYSTEM OPTIMIZATION	
SA RELIEF MAP			R-155 N63-11744	04-0
CF CHART SIMULATION OF MAP CORRELATION FOR ORBITAL WEAPON TERMINAL CORRECTION		OR	NEW PROOF OF KONIG THEOREM EUR-144.F N63-11766	04-2
A SA ROSAMO UNIVERSALAT PROT	N63-10400	01-20	TOPOGRAPHY, AND MAPPING	
AEROMAGNETIC AND MARINE EXPLORATION JPRS-16568	ON N63-10979	02-21	AFCRL-63-208 N63-13329	
ATLAS OF DIURNAL AMPLITUDES OF AIR	R TEMPERATU	RE IN	ANALYTIC MAPPINGS INTO RIEMANN SURFACE AROD-1517-52 N63-16947	14-20
	N63-10981	02-21	TOPOLOGICALLY CONVEX SETS AND FIXED POINT THE	EORY -
USING A NUMERICAL MAP OF IONOSPHEI CHARACTERISTICS - COMPUTER METHOD			RIAS-TR-63-8 N63-17124	15-20
	N63-12210		OPTICAL INSTRUMENT FOR INTERFEROMETRY, DEFLEC MAPPING, SHADDMGRAPHY AND SCHLIEREN PHOTOGRAF ARL-63-45	PHY
RAL-TH-63-4 ATLAS OF MONTHLY MEAN STRATOSPHER	N63-13797		IONOSPHERIC PREDICTIONS BASED ON NUMERICAL MI OF MAPPING N63-18998	
TO 1959 - PART 2, JULY TO DEC - AL		OITIONS	MAPS OF SOLAR CHROMOSPHERE AND CATALOGS OF FI AND SUMSPOTS - SPECTROMELIOGRAPH ANALYSIS	LARES
CATALOG OF WEATHER MAPS FROM TIROS PHOTOGRAPHS		12-32	N63-20070 COMPUTER PROGRAM FOR IONOSPHERIC MAPPING BY	20-2
TWO NONCONFLICTING CONVENTIONS DE	FINED FOR L	UNAR	NUMERICAL METHODS NBS-TN-181 N63-20686	
AND PLANETARY REFERENCE COORDINATE VERSUS ASTRONAUTICAL MAPS AND CHAI JPL-TM-33-72		13-29	DECISION MAPPING OPTIMUM NETWORKS /DEMON/ - FOR NEW PRODUCTS MARKETING	ALPR .
AUTOMATIC PROCESSING OF TIROS METE	EDROLOGICAL	276	ONR-RH-79 100 N63-20782	21-00

AUTOMATIC PROCESSING OF TIROS METEDROLOGICAL SATELLITE DATA - WEATHER MAPPING BY PHOTOGRAPH ANALYSIS

E

AP

AROD-3083-7	N63-21052 22	
GEOMAGNETISM - ROLE OF	GRAVITATIONAL AND MAGNET	IC MASA
SATELLITES IN ELECTRONA	TH CORE CURRENTS - USE O GNETIC MAPPING N63-23441 24	MANIE
THE PARTY AND THE PARTY IN	NAME OF THE PERSON NAMED OF TAXABLE PARTY.	25-23190
MARAGING STEEL	SOLAR RABIATION ASSOURTS	PONE!
ENGINEERING PROPERTIES (ASD-TDR-62-230	DF MAR-STRAINED STEELS N63-10294 01	-18 SPACE
LOW-CARBON HIGH-NICKEL DMIC-MEMO-162	N63-12296 05	-18 MARIN
PERSHING HOTOR CASE CLO		7.31
COBALT-MOLYBDENUM MAR-A MATERIALS W-G-RD-62-156		ASSEM OF AS
VI-ASTY PRESCRIBINATION VAN	on the title stopped with the	
MARAGING STEEL - TENSIL PROPERTIES		MARINER INTE
NRL-5916	N63-16878 14	-18 DATA
HIGH STRENGTH LAMINATED JOINT CONSTRUCTION USIN	G MARAGING STEEL AND	MARINER INTER
POLYAMIDE EPOXY RESIN A	N63-16938 14	-34 OBSE
MARBORE II ENGINE	EVOLUTIONS PER MINUTE FO	RESUL
MADDODE IT ENCINE	N63-14352 10	COSMI
	N63-14352 10	FLUX EARTH
	NO. 37-18 - SEPT TO NOV	
1962 - DEEP SPACE INSTR JPL-SPS-37-18, VOL. II	UMENTATION FACILITY N63-11052 03	Int
MARINER SPACECRAFT - VENASA FACTS-D-62	NUS FLIGHT N63-12091 05	19-20
DEC 1962 - SPACE EXPLOR		TO DEC :
JPL-SPS-37-18, VOL. VI	OH PERSON DESIMERABLE	VENUS
MARINER SPACECRAFT - VE EXPLORATION		-32 MICRI
SOLAR-CELL POWER SYSTEM JPL-TR-32-350	S TESTING N63-14450 10	CHAN
FOR DATA TRANSMISSION A	NA3-14466 10	TEM MARII
GRA HIA WAS - 2KI	NO. 37-19 - VOL 6, NOV 1	
TO JAN 1963 - SPACE EXP	LORATION PROGRAMS & SPAC , MARINER & VOYAGER PROJ N63-14902 11	E HAGN
	ETION TARGETING TECHNIQUE LUNAR AND INTERPLANETA	
FLIGHT PROGRAMS - RANGE	R/MARINER PROGRAM	-29 MARI
PROGRAMS	IES FOR RANGER AND MARIN	IER JPL-
	N63-20496 20	-34 MARTI
MARINER R PROGRAM MARINER R SPACECRAFT RE MASA-CR-51223	LIABILITY MODEL N63-22053 22	
	RE, ROTATION INCLINATION	MARII
MARINER R 2 SPACE PROBE NASA-CR-50873	TURE, MAGNETIC FIELD FRO	H -29 HARI
SPACE EXPLORATION WITH	THE CHARLES THE PROPERTY OF THE PARTY OF THE	982
MADINED 8-2 VENUE DOORE	N63-21911 22	MARTI
	MAPE COM NEGOTIMENTS FOR	
VANDERHOUS MONTH	The second second second second	DERI

MARINER SPACECRAFT - VENU MARINER SPACECRAFT - VENU MASA FACTS-D-62	N63-12091 05-32
EXPLORATION	75 PROBE & SPACE N63-12359 06-32
POWER SUPPLY FOR MARINER NASA-CR-50724	N63-19950 19-06
SPACE SIMULATOR TEST OF P AUTOPILOT SYSTEMS WITH RO AIAA PAPER-63-343	MARINER SPACECRAFT OCKET MOTOR FIRING N63-20758 21-22
MARINER R SPACECRAFT RELINASA-CR-51223	
MARINER SPACECRAFT PACKAG ASSEMBLY, FLEXIBILITY OF OF ASSEMBLIES	LOCATION, & INTEGRATION
NASA-CR-51422	N63-22165 23-32
MARINER I SPACE PROBE INTERPLANETARY MEDIUM - I DATA FROM MARINER II VENI	FIELDS AND PARTICLES
MARINER II SPACE PROBE INTERPLANETARY MAGNETIC I OBSERVATIONS	FIELDS - MARINER II N63-12082 05-32
MARINER II MICROWAVE AND RESULTS	
COSMIC DUST EXPERIMENT OF FLUX OF INTERPLANETARY DI EARTH AND VENUS	UST PARTICLES BETWEEN N63-13152 07-29
RADIO TRACKING OF MARINE	
MARINER II DEEP SPACE TE	LECONHUNICATIONS
SPACE PROGRAMS SUMMARY NI DEC 1962 - DSIF, MARINER JPL-SPS-37-19, VOL. III	0. 37-19 - VOL 3, NOV TO II TELEMETRY DATA N63-13439 08-10
MARINER II SPACECRAFT - VENUS, TRACKING, AND MIDI JPL-TR-32-395	TRAJECTORY, INJECTION, COURSE CORRECTION N63-13596 08-29
MICROWAVE OBSERVATIONS OF CHANNEL RADIO TELESCOPE SPACEGRAFT	F VENUS UTILIZING TWO- MOUNTED ON MARINER 11 N63-13845 09-29
MARINER II VENUS PROBE - DISTRIBUTION AND INTENSI MAGNETIC TRAPS	MAGNETOSPHERE - SPATIAL TY OF CHARGED PARTICLES IN N63-14943 11-29
CHARGED PARTICLE MEASURE MAGNETOSPHERE WITH GEIGE MARINER II SUI-63-6	MENT IN VENUS R-MUELLER DETECTOR ON N63-15085 11-32
MARINER II SPACE PROBE -	WE WORK BE SHEEDING WISHED
CROSS RELAXATION IN 40%	VENUS PROBE - RADIATION
JPL-TR-32-429	N63-16423 • 14-20
MARINER II SPACE PROBE R NASA FACTS-B-4-63	- CONTRACTOR DESCRIPTION OF CONTRACTOR OF CO
SOLAR PLASMA DATA FROM M TIME VARIATION, PLASMA D JPL-TM-33-111	ARINER II SPACE PROBE, ENSITY, ION TEMPERATURE N63-17226 15-29
MARINER II DATA PROCESSI	NG SYSTEM N63-17521 16-08
MARINER II SPACE PROBE -	SULAK UKBIT
HARINER II SPACEFLIGHT TO	D VENUS - DATA ANALYSIS
DERIVATION OF PHYSICAL C	

TRACKING OF MARINER II - PLA ASTRONOMICAL UNITS	METARY MASSES	LHO	TEMPERATURE ARF-A200-4	N63-15321	12-29
AIAA PAPER-63-424	N63-20498	20-32	Transfer Sty. Deed Princery to the Style.		B495
MARINER II VENUS MISSION - F AGENA LAUNCH VEHICLE, SPACEC AND SCIENTIFIC EXPERIMENTS	PREPARATION, ATE TRAFT FLIGHT, TO N63-21488	RACKING,	SPACE SCIENCE - PHOBOS SPACE S EXPLORATION PRIOR TO MANNED SP		MARS
INTERPLANETARY MAGNETIC FIEL	D MEASURED BY E	to Francis	HEAT BALANCE ON MARS SURFACE - SOLAR RADIATION ABSORPTION	NARS ATMOSPHI N63-16198	
X, PIONEER V, AND MARINER II SID-63-380	N63-21907	No Fox	PLANETARY PHOTOGRAPHY - MULTIC THE MOON, MARS, VENUS, AND OTH	ER PLANETS	
SPACE EXPLORATION WITH SCIEN MARINER R-2 VENUS PROBE MASA-TM-X-50312			PHYSICS OF PLANETS - INTERNAL	N63-16246 STRUCTURE, SU	13-05
MARINER II SOLAR PANEL FLECT	100125-00	PLY	AND ATMOSPHERES - MERCURY, VEN AND SATURN AFCRL-63-457	4.05-030.14	13-23
	100	11111	THE RESIDENCE OF THE PARTY OF T		LOGAL
MARINER III SPACE PROBE SOLAR AND SPACE SIMULATOR FA SPACECRAFT			GEOLOGICAL AND GEOPHYSICAL PRO SURFACE AND BODY OF MARS JPL-TR-32-400		14-29
NASA-CR-50997	N63-21120	21-17	REVIEW OF ADVANCED PROPULSION	221M 20AM 003	10W -
MARKOV CHAIN OPTIMAL SYNTHESIS OF AIR DEF MARKOV MODELS		ING	MUCLEAR AND ELECTRIC PROPULSIO		
AFCRL-62-354	M63-11632		ASTROMONICAL ALMANAC, MAY-AUG MOON, VENUS, SATURN, AND JUPIT	ER	
MATHEMATICAL ANALYSIS OF COM THEORY, LANCHESTER THEORY OF NUMERICAL METHODS, SIMULATIO	COMBAT, GAME T	HEORY, DELS	MARS ENVIRONMENT SIMULATION	N63-17010	773.00
AFCRL-63-38	M63-13978	09-20	SAM-TOR-62-151	N63-17555	16-16
FOSTER PROBABILITY THEORY OF CONTINUOUS TIME			GUIDANCE PHENOMENA FOR MANNED I MARS BY ANALYSIS OF TRAJECTORY TO SMALL PERTURBATIONS		
SENI-MARKOV MODEL FOR CLINIC		A	VELOCITY REQUIREMENTS FOR STOP		NAME AND POST
ANALYSIS - STOCHASTIC PROCES HRC-396	M63-16791	14-20	SPACEFLIGHT TO MARS FOR DEPARTS TO 1977	URE DATES FROM	1971
PREDICTION THEORY	OV PROCESSES AN N63-19978		RM-3474-PR POSSIBILITY OF LIFE ON MARS - 1	N63-19409 BIOCHEMISTRY	19-29
NARS /PLANET/				N63-19479	19-16
GUIDANCE PERTURBATIONS FOR A MISSION USING SNAP-8			BIOCHEMICAL AMALYSIS OF MARS B	Y GAS CHROMATO N63-19481	
ENTRY OF SPACE VEHICLES INTO	and the same of th		BIOCHENICAL DETECTION OF EXTRA USE OF RADIOISOTOPIC NETABOLIC		MARS
SIMULATED MARTIAN ENVIRONMENT AND SOIL MOISTURE CONTENT	T - BACTERIAL S	URVIVAL	BIOCHENICAL AMALYSIS OF MARTIA	N SOIL BY VIDI	
SAM-TOR-62-121 INTERNAL CONSTITUTION OF THE	N63-10075	02-29	ULTRAVIOLET RADIATION REFLECTIV		
P1-17 EMPE-12A	N63-10948	02-29	PHYSICAL CONDITIONS ON MARS -		- 300
VIABILITY OF TERRESTRIAL MICH SIMULATED MARTIAN ENVIRONMENT		MARCH I	ATMOSPHERE NASA-TT-F-165	N63-19862	19-29
ARF-3194-7 OBSERVATIONS OF MARS IN THE	N63-11127		NUCLEAR ROCKET PROPULSION APPL		
OPPOSITION OF 1956 NASA-TT-F-93	N63-11212		ECOLOGICAL PROFILE OF MARS - A	EROSPACE MEDIC	CINE
DERIVATION OF THE FORMULAS FO		N OF	ATNOSPHERE & SURFACE OF MARS -	N63-20576	ANIA-
RM-3138-NASA	N63-11428	100000	RSIC-44	N63-20654	20-29
AND PHOTOSYNTHESIS	M63-14434	10-16	EXTRATERRESTRIAL LIFE - POSSIBL	E ORGANISMS (
PLANETARY ENTRY RESEARCH FOR EQUILIBRIUM THERMOCHEMISTRY,	DISSOCIATION, I		MARS AND ORGANIC LIFE	N63-21491	22-16
TRANSFER, SHOCK TUBES, VENUS TIS-R62-SD-84	N63-14713	10-29	SPACE BIOLOGY AND MEDICINE - EX	TRATERRESTRIA N63-21547	22-16
DESIGN PARAMETERS FOR BALLIST TRAJECTORIES - MARS AND VENUS JPL-TR-32-77	ONE-WAY TRANSI	FERS	CHEMICAL PROPULSION FOR INTERPL DESIGN OF SPACECRAFT FOR BRAKEN AROUND PLANET MARS	AMETARY FLIGH	IT AND
POSSIBLE EXTRATERRESTRIAL LIFE			NASA-TH-X-50470	N63-21901	22-27
RADIATIVE ENERGY TRANSFER ON VENUS - EMISSIVITY OF CARBON	ENTRY INTO MARS	S AND	ATMOSPHERIC ENTRY INTO MARS - E SHAPE ON REQUIREMENTS FOR MEASE AND HIGH AMPLITUDE OSCILLATION		

9 9

5 . 3

9

9

0 Y 2

NASA-CR-51421			NASA-TT-F-165 200, and thousand to be	N63-19862	19-29
PHYSICAL PROPERTIES OF MARS SM-43634			THERMAL RADIATION FROM HOT GA ATMOSPHERES OF MARS AND VENUS		A CANO
AVERAGE SURFACE TEMPERATURE ON	MADE ESTIMAT	ED	AIAA PAPER-63-455	N63-20136	20-28
FROM RADIATIVE EQUILIBRIUM NASA-CR-51990	N63-22512	-18)(ATHOSPHERE & SURFACE OF MARS - COMPOSITION		HICAL
10. ACT REDDMONEY TO 1 TAULD A STROP	TOR GUELDANS	9W3-0	RSIC-44	N63-20654	20-29
DUAL-CAVITY RUBY MASER USED IN EXPERIMENT NASA-CR-52020			SPACE CAPSULES FOR DATA COLLEGE OF CHARACTERISTICS OF MARS &		
			NASA-CR-50956	N63-20816	21-32
PHYSICS OF BALLOONS & THEIR POS EXPLORATION VEHICLES NASA-CR-51782	N63-22880		MARS ATMOSPHERE ENTRY STUDY NASA-CR-52271		
MICROSCOPIC SYSTEM USING PNEUMA	TIC FOULDNEN	T Ene	ABLATION-TYPE THERMAL PROTECT		NI-A
STUDYING MARTIAN AEROSOLIZED SU NASA-CR-51538	RFACE PARTIC	LES			
DETECTION OF WATER VAPOR ON HIG			HARS-1 SPACECRAFT	to a wardway la	
NEAR-INFRARED SPECTROGRAM OF MA JPL-TR-32-454	N63-23048	24-29	AUTOMATIC INTERPLANETARY STAT BY SOVIETS RAE-TRANS-1026		10-29
MANNED SPACE FLIGHT TO MARS & V			TATO INSTITUTE SEMBLAN BANCONES	3 TOTAL POLICE S	010
MARCHES AND THE PARTY OF THE PA	N63-23232		IN-FLIGHT OPERATIONAL ANALYSI MARS I SPACECRAFT	N63-17248	
RATIONAL PROGRAM FOR PLANETARY SPACE PROBES OF INCREASING SOPH MERCURY, VENUS, AND MARS DATA R	ISTICATION -		DESCRIPTION OF MARS I - SOVIE		
	N63-23449	24-29	MARTENSITIC STEEL	24-154-22083 88	TW-122
ARS ATMOSPHERE RADIATIVE ENERGY TRANSFER ON EN		S AND	MARTENSITIC STEEL ALLOYS SUSC CORROSION - IMMERSION TESTING	EPTIBILITY TO	STRESS
VENUS ATMOSPHERE ARF-1200-3	N63-10142	01-29	ASD-TDR-62-876 VAL STEENANT	N63-16889	14-18
OBSERVATIONS OF MARS IN THE USS		adoa "	STRUCTURE OF AUSTENITIC STAIN MARTENSITE TRANSFORMATION IN	CRYOGEN HYDROGI	EN
OPPOSITION OF 1956 NASA-TT-F-93	N63-11212	03-29	STUDIED WITH ION BOMBARDMENT CERN-63-11	NICROSCOPE N63-17468	
BLUE CLEARING DURING 1960-61 MA	RS APPARITIO	IN	STRESS CORROSION TESTING OF H	IGH STRENGTH S	TEELS -
A PERSON AND THE PROPERTY OF THE PERSON AND THE PER	N63-11920		MARTENSITE ALLOY 06-7502-3	N63-18078	16-18
MOLECULAR SPECTROSCOPY OF PLANE VENUS AND MARS			HIGH STRENGTH & FRACTURE TOUG	HNESS IN STEEL	S NEAR
METEOROLOGY OF MARS AND VENUS -	THERMAL STR	UCTURE	STRAIN-INDUCED MARTENSITE TRA WAL-TR-323.4/2	NSFORMATION N63-20001	19-18
AND CIRCULATION OF ATMOSPHERE			MASER AND SEES OF MASE SEES OF	COLUMN - TOTAL	MAKATAN
GCA-TR-63-6-N			SA OPTICAL HASER	NAVY BOX - ROS - NAU	22875
METEOROLOGY OF MARS AND VENUS - COVER ON RADIATION BALANCE OF M		ERES	CF AMPLIFIER CF LASER CF SOLID STATE DEVICE	TORNOUS TO THE STATE OF THE STA	TAI SER
CHARACTERISTICS OF MARS AND VEN		E	OPERATIONAL 960-MC MASER SYST TRACKING MISSIONS JPL-TR-32-306	N63-10250	365
	N63-14806	11-29	REVIEW OF PARAMAGNETIC RESONA	1 at -sacadfe	90.2
HEAT BALANCE ON MARS SURFACE - SOLAR RADIATION ABSORPTION	MARS ATMOSPH N63-16198	13-29	SURVEY OF CRYSTALS FOR USE IN IER SER. 60. ISSUE 439		ASERS
MARS ATMOSPHERE		ST PEAM	PHYSICS, SOLID STATE DEVICES,	HASERS, RADIO	CHI
NASA-CR-50016			ASTRONOMY, AND CRYOGENIC APPL MICROWAVE TECHNIQUES		日本なっ
MARS ATMOSPHERE - SHOCK LAYER S THERMODYNAMIC CONDITIONS	TUDIES -		CROSS RELAXATION IN NON-ZEEMA	N SPIN SYSTEMS	AND
R63SD12			UTILIZATION IN PARAMAGNETIC M	ICROWAVE HASER	S
PLANETARY AERONOMY - ROLE OF IN IN PLANETARY ATMOSPHERES - SODI OF EARTH, VENUS AND MARS	UM IN ATMOSP	HERES	TRAVELING WAVE TUBES, CRYSTAL WINDOWS, MAGNETS, SECONDARY E	LAMPS, CERAMIN	C UNGSTEN
AVCTO2. N	N63-17317		SURFACE BONBARDMENT, CRYSTAL	N63-14414	
FLIGHT CONDITIONS IN ATMOSPHERE VENUS - ATMOSPHERE MODEL RM-3388-PR	OF MARS AND N63-18384		DISSOCIATIVE NECHANISM PROPOS OBSERVED IN PULSED OPTICAL GA		TIONS
HODEL ATMOSPHERE OF MARS FOR AT	LELEPAS - IS			N63-14422	10-25
ENGINEERING STUDY - PLANETARY E P-2639		18-29	EXCITED STATE-LATTICE INTERAC OPTICAL EXCITATION STUDY	TION OF F-CENT	ER :-
SOUTH TO MEET TRAIL BOY WORK STAN	BUCAUN DY IN		RR-TR-63-1	N63-14645	10-25
ENVIRONMENT OF PLANETS IN SOLAR MARS AND VENUS P-2640	N63-19338	18-29	NAVY PROGRAM IN RADIO ASTRONO RADIATION, RADIO STARS, MASER	DEVELOPMENT,	RADIO
PHYSICAL CONDITIONS ON MARS - S	UREACE AND	STA	RECEIVER TECHNOLOGY	N63-14737	11-05
True Ameritana ou unyo _ 3	O'IL MOR MIND		The state of the s	THE PERSON NAMED IN COLUMN	

ISOTOPE SHIFT AND SATURATION BEHAVIOR OF 1.5 MU

PHYSICAL CONDITIONS ON MARS - SURFACE AND ATMOSPHERE

OPTICAL TRANSITION OF NEON MASERS N63-15453 12-25	
SPACE COMMUNICATIONS - RADIO, LASERS, AND MASERS JPL-TM-33-85 N63-17336 15-08	N63-15401 12-19 MEASUREMENT OF MASS/CHARGE POSITIONS FOR MASS SPECTROMETER USING ROTATING COIL GAUSSMETER
SOLID STATE MASER MATERIALS FOR USE AT MILLIMETER MAYELENGTHS - MICROMAVE SPECTRUM STUDY	NBL-194 N63-15551 12-15
N63-18711 17-25	MULTIDEGREE SPRING MASS SYSTEM - VIBRATION
ELECTRON PARAMAGNETIC RESONANCE IN CRYSTALS OF RARE EARTH NETALS & APPLICATIONS AS MASERS	N63-16081 13-33
MAGNETIC RELAXATION IN RARE-EARTH METAL CRYSTALS	THEORY OF PERTURBATION EXPANSION OF MASSES AND ELECTROMAGNETIC QUANTITIES WITHIN UNITARY SYMMETRY N63-16523 14-24
FOR MASERS N63-19416 19-23	METEOR MASS DISTRIBUTION MEASUREMENTS BY RADIO
PARAMAGNETIC RESONANCE OF IMPURITIES IN NATURAL CRYSTALS OF CALCITE AND BARITE MASERS	ECHDES N63-16632 14-05
IER SER. 60, ISSUE 452 N63-20413 20-25 LOWER THRESHOLD OF STIMULATED EMISSION FROM	X-RAY MASS ABSORPTION COEFFICIENTS 8M-IC-8166 N63-16978 14-23
GALLIUM ARSENIDE SEMICONDUCTOR MASERS N63-22258 23-25	CALCULATION OF PARTICLE /RESONANCE/ MASS AND LIFETIME - QUANTUM MECHANICS N63-18258 17-23
BIBLIOGRAPHY OF LASERS AND MASERS N63-22774 23-24	AIR DENSITY AND MASS DISTRIBUTION IN ATMOSPHERE N63-18747 17-21
DUAL-CAVITY RUBY MASER USED IN MARS RADAR	DERIVATION OF PHYSICAL CONSTANTS FROM RADIO
EXPERIMENT NASA-CR-52020 N63-22877 23-08	TRACKING OF MARINER II - PLANETARY MASSES AND ASTRONOMICAL UNITS
MASER CROSS-RELAXATION THEORY	AIAA PAPER-63-424 N63-20498 20-32
N63-23526 24-25 FILLING FACTOR OF TRAVELING-WAVE MASER - SINGLE OR	INFINITE MASS OF INCOMPRESSIBLE FLUID PENETRATED BY MAGNETIC FIELD - MAGNETOHYDRODYNAMICS NASA-CR-50960 N63-21060 21-24
BOTH SIDES LOADED, GAIN, ISOLATOR, AND PUMP N63-23527 24-25	COMPUTATION OF LOWER LIMIT OF MASS OF A MAIN
MASER PROPERTIES OF CHROMIUM IN ZINC TUNGSTATE FOR	SEQUENCE STAR NASA-RP-13 N63-21099 21-29
L-BAND AMPLIFICATION N63-23528 24-25 MASER - GENERAL THEORY OF CROSS RELAXATION FOR SINGLE SPIN FLIP N63-23529 24-25	AXISYNMETRIC HYDROMAGNETIC WAVES IN CURRENT- CARRYING PLASMA COLUMN WITH NONUNIFORM MASS DENSITY DISTRIBUTION
ASK	AGES-63-7 N63-21462 22-24
EFFICIENCY OF DXYGEN MASKS DETERMINED BY MEASURING MITROGEN CONTENT WITHIN THE MASK CARI-62-21 N63-13325 07-16	COOPERATIVE GEOMAGNETIC MICROPULSATION MEASUREMENT ONR-130 N63-21464 22-12
ASKING VISUAL AND AUDITORY STUDIES - INCREASE IN SPEECH	CHARGE, MASS, AND ENERGY BALANCE IN COLLISION OF SLOW IONS WITH SOLID STATE ATOMS FTO-TT-62-851/16284 M63-23724 24-25
INTELLIGIBILITY THROUGH PRE-EMPHASIS PRIOR TO MASKING BY GAUSSIAN NOISE MRL-TDR-62-11 N63-13812 09-23	MASS BALANCE MASS UNBALANCE IN A SIMPLIFIED AUTOSPIN SYSTEM -
BACKWARD MASKING UNDER MONOTIC & DICHOTIC ACOUSTIC	EFFECT ON MISSILE TRAJECTORY TEAM-206 N63-10716 02-20
STIMULATION SAM-TDR-62-76 N63-14790 11-16	METHOD OF EXPRESSING MASS UNBALANCE - FORCE-MOMENT
ASS	METHOD APPLICATION TO SPACECRAFT DESIGN NASA-TN-D-1446 N63-15765 13-33
SA CRITICAL MASS MASS OF HIGH VELOCITY GASES FROM TOROIDAL IMPLOSION CHARGES - NUCLEAR PULSE PROPULSION GAMD-3629 N63-10124 01-27	MASS FLOW PRESSURE RECOVERY AND MASS FLOW OF RECTANGULAR MULTI-SHOCK AND ISENTROPIC EXTERNAL COMPRESSION
NUCLEAR PHYSICS, REACTOR PHYSICS AND MASS PHYSICS	INTAKES AT MACH 2.9 ARC-CP-630 N63-13848 09-11
HW-75228 N63-12411 06-23	DISTRIBUTION OF CONCENTRATION, MASS FLOW AND
MASS OF LIQUID PROPELLANT WITHIN SPACECRAFT PROPELLANT TANK SUBJECTED TO ZERO GRAVITY NASA-TH-D-1571 N63-13303 07-15	VELOCITY OF SOLID PARTICLES /MAGNESIUM OXIDE AND GLASS/ ILL-9-P N63-13918 09-07
SPIN, CHARGE, AND MASS OF BARYONS BY RELATIVISTIC WAVE EQUATION N63-13770 08-20	HYDRODYNAMIC MOMENTUM AND MASS-FLOW EQUATIONS FOR SOLAR AND STELLAR CORONA
USE OF SPRING-MASS TO APPROXIMATE BAR-MASS SYSTEM	EFINS-63-18 N63-15445 12-28
SUBJECTED TO RECTANGULAR-FORCE PULSE BALLISTICS RES. REPT76 N63-14176 09-33	AXISYMMETRIC EXTERNAL COMPRESSION DOUBLE COME INLET - MACH 3 TO 0.6 - PRESSURE RECOVERY, MASS FLOW RATIO, COML PRESSURE AND ADDITIVE DRAG
STUDY OF BUBBLE INITIATION, GROWTH RATE AND DEPARTURE TO COMPUTE HEAT TRANSFER AND EFFECT ON	NASA-TM-X-149 N63-16135 13-02
PROPERTIES OF VERTEX FUNCTIONS OF STRONGLY INTER-	PROBE TO MEASURE MASS FLOW PER UNIT AREA OF SHORT DURATION FLOWS IN HYPERSONIC SHOCK TUNNEL NPL/AERO/1004 N63-16940 14-11
ACTING PARTICLES - RELATIONS BETWEEN MASS AND COUPLING CONSTANT - ANDMALOUS MAGNETIC MOMENT N63-14235 10-23	AIR MASS FLOW REQUIREMENTS FOR VERTICAL TAKEOFF OF AUTOGYRO N63-17387 15-04

HIGH TEMPERATURE THERMODYNAMIC PROPERTIES OF LITHIUM OXIDE BY ELECTRIC DEFLECTION - POLARITY

19

15

33

23

32

24

29

24 NT 12

25

20 NT

-11 -07 DR

G -02 RT -11

OF -04

CRYOGENIC PUMPING IN HIGH MASS FLOW SYSTEM AEDC-TDR-63-199 N63-22955 23-	STUDY BY MASS SPECTROMETER -11 AROD-006-9 N63-19215 18-07
MASS FLOW MEASUREMENT USING ORIFICES IN IMPULSE BASE FLOW FACILITY NASA-TM-X-50998 N63-23819 24-	
SS FLOW FACTOR	CARDE-TN-1524 A MARKET COLUMN NO. N63-22747 23-23
F NOZZLE GEOMETRY	MASS SPECTROMETRY ANALYSIS OF IONIZED GASES - MASS SPECTROMETRY
SS NUMBER SPHERICAL NUCLEI WITH SIMPLE RESIDUAL FORCES — HAMILTONIAN & MAYE FUNCTIONS, ENERGY LEVELS, MAI NUMBERS, BETA DECAY N63-15727, 12-	-23 HETERONUCLEAR RARE GAS MOLECULE ION
SS RATIO	No to a state of the second of
SINGULAR ORBITS OF EARTH-MOON SATELLITES WITH HI AREA-MASS RATIO	SPECTROMETRY
SAO SPECIAL REPT107 N63-12117 05-	The road of Edition and the control of the control
SINGULAR ORBITS OF EARTH-MOON SATELLITES WITH HI AREA-MASS RATIO N63-15205 11-	IGH VAPORIZATION OF COMPOUNDS AND ALLOYS AT HIGH -32 TEMPERATURES - MASS SPECTROMETRY, IONIZATION CROSS SECTIONS, DISSOCIATION, AND EVAPORATION
SS SPECTROMETER AUTOMATIC MASS SPECTROMETER FOR MONITORING URAN	N63-14880 11-07
ISOTOPE CONCENTRATIONS K-1445 N63-12172 05-	ELECTRON TUBE CONSTRUCTION MATERIALS AND GAS EVOLUTION - MASS SPECTROMETRIC ANALYSIS
EVOLUTION OF GAS FROM ELECTRON TUBE STUDIED BY	AFCRL-63-35 NATIONAL ALEXAND N63-16798 14-23
MASS SPECTROMETER AFCRL-62-923 N63-12986 07-	OFTERMINATION OF CARBON IN SODIUM BY ISOTOPE DILUTION AND MASS SPECTROMETRY NAA-SR-7918 NA9-18180 16-07
QUADRUPOLE MASS SPECTROMETER FOR STUDY OF DIELECTRIC MATERIALS AND ELECTRON-IONIZATION CRO	The second of th
SECTIONS THE RESERVE AND ADDRESS OF THE PERSON OF THE PERS	OF IONIZATION IN FLAMES CONTAINING HYDROCARBONS 15 N63-18559 17-26
DEVICE FOR MEASURING ION CURRENTS IN MASS SPECTROMETER CIRCUITS - PHOTOMULTIPLIER DYNODE FTD-TT-62-1529/16264 N63-13585 08-	REACTIONS OF GASEOUS IONS - HIGH PRESSURE MASS SPECTROMETRIC STUDY OF METHANE IN SQUID PROJECT -07 HUM-2-P N63-19305 18-07
DISSOCIATION OF OXYGEN MEASURED BY ROCKETBORNE MASS SPECTROMETER N63-14046 09-	MASS SPECTROMETRY OF THE LOWER IONOSPHERE ABOVE HALLOPS ISLAND - DIFFUSIVITY OF ARGON & NITROGEN NASA-TN-D-1851 N63-19605 19-12
SIX-INCH MASS SPECTROMETER FOR ISOTOPIC ANALYSIS OF SOLIDS, LIQUIDS OR GASES - BORON, LITHIUM &	AERONOMIC PARAMETERS OF THERMOSPHERE AND IONOSPHERE FROM MASS SPECTROMETRY
URANIUM STUDY NBL-191 N63-14644 10-	
PLUG-IN-TYPE SURFACE IONIZATION SOURCE FOR MASS SPECTROMETER WITH VACUUM EQUIPMENT Y-1415 N63-14793 11-	MASS SPECTROSCOPY METHODS AND USES OF MASS SPECTROSCOPY -23 AEC-TR-5080 N63+10674 02-15
THERMODYNAMIC STUDY OF TIM AND LEAD SULFIDES WITH MASS SPECTROMETER - VAPORIZATION OF ALLOYS AND COMPOUNDS AT HIGH TEMPERATURES	TH FLASH PYROLYSIS OF PHENOL-FORMALDEHYDE BY TIME-OF- FLIGHT MASS SPECTROSCOPY R625081 N63-12799 06-07
WADD-TR-60-782, PT. VII N63-14879 11-	
HIGH MASS RANGE RESOLUTION AND SENSITIVITY OF OREGATRON MASS SPECTROMETER	NEUTRON CROSS SECTION, PROTON SCATTERING, AND MESON-NUCLEON INTERACTION
AFCRL-62-953 N63-15433 12-	-15 ANL-6666 08-23
MEASUREMENT OF MASS/CHARGE POSITIONS FOR MASS SPECTROMETER USING ROTATING COIL GAUSSMETER NBL-194 N63-15551 12-	PHYSICS SUMMARY - VAN DE GRAFF ACCELERATOR, NUCLEAR REACTIONS, MASS SPECTROSCOPY, -15 SUPERCONDUCTIVITY, AND PARTICLE THEORY ANL-6679 N69-13185 11-23
THERMAL EMISSION SOURCE AND MASS SPECTROMETER - UTILIZATION FOR MEASUREMENT OF URANIUM ISOTOPE ABUNDANCES AND REACTOR FUEL BURNUP PNAC-393 N63-16167 13-	HEAVY MESONS AND EXCITED BARYONS - MASS SPECTRA, QUANTUM NUMBERS, LIFE TIMES AND DECAY MODES
AUTOMATIC MASS SPECTROMETER FOR RELATIVE MEASUREMENT OF URANIUM ISOTOPE K-1444 N63-16453 14-	SYNTHESIS, MICROWAVE AND MASS SPECTRA, AND MOLECULAR STRUCTURE OF SULFUR MONOFLUORIDE N63-17725 16-07
RADIO-FREQUENCY MASS SPECTROMETER MEASUREMENTS OF ION COMPOSITION OF UPPER ATMOSPHERE N63-18441 17-	ENVIRONMENT - MASS SPECTROSCOPY OF VOLATILE12 MATERIALS
NEUTRAL ATMOSPHERIC COMPOSITION STUDY WITH MASS	NASA-CR-50952 N63-21049 21-29
SPECTROMETER ON NIKE-CAJUN AND NIKE-APACHE ROCK	-15 CF ENERGY TRANSFER
CALIBRATION OF FLYABLE MASS SPECTROMETER FOR	BINARY FLUID
NITROGEN AND DXYGEN ATOMS AFCRL-63-437 N63-18808 18-	ARL-62-396 N63-12025 05-11

STEADY-STATE FLUX OF MASS & ENERGY AT SOLID CATALYTIC SURFACE DUE TO HETERGENEOUS RECOMBINATION OF HYDROGEN ATOMS - SQUID PROJECT

RESIDUAL STATIC STRENGTH OF STRUCTURES CONTAINING

2 2 2

TI

RI

α

OI AS

SI

NE NA AS

CRACKS

SRI-14-P	N63-12305	05-07
HEAT TRANSFER CONTROL PERMANENT STRUCTURES	BY MASS TRANSFER FOR - SURFACE COOLING M63-16059	13-13
MASS TRANSFER AND COM	BUSTION RATES IN TURBUI	LENT
FLAMES	N63-16253	13-26
METEOR SYSTEM	I-ZINNER COMET AND DRAC N63-16662	14-05
TEMPERATURE SURFACES	R AT EVAPORATION COOLEC	
RM-2997-PR	N63-17452	15-20
METEOROLOGY - ENERGY (MASS TRANSFER AND WING AFCRL-63-435	CONVERSION, ANGULAR MOP D CIRCULATION IN STRATO N63-17783	SPHERE 16-21
MASS TRANSFER AND DIST STRATOSPHERE	TRIBUTION IN TROPOPAUSE N63-17788	16-21
ENERGY AND MASS TRANSF INFLUENCE OF SOIL-PLAN	FERS NEAR THE GROUND - NT-ATMOSPHERE SYSTEM N63-18827	18-12
TURBULENT MASS TRANSFE STREAMS - FLUID MECHAN	ER DIFFUSION IN LIQUID	
15-419	N63-18849	18-11
TRANSFER OF MOMENTUM, PIPE FLOW PAST A HYDRO EUR-293.E	HEAT, AND MASS IN TURE DDYNAMICALLY SMOOTH WAL N63-19206	SULENT L 18-11
EQUATIONS WITH VARIABLE	F LAMINAR BOUNDARY LAYE LE FLUID PROPERTIES - P	
TRANSFER, WALL TEMPERA	ATURE, PRANDTL NUMBER N63-20769	21-11
THEORY OF MASS TRANSPO SURFACE REACTIONS & GA ROCKET NOZZLES	ORT APPLIED TO KINETICS ASEOUS DIFFUSION IN DES N63-22652	OF IGNING 23-02
	MATANO ANALYSIS OF BINA	RY
DIFFUSION DATA ASD-TDR-62-858	N63-12308	05-18
ATERIAL		
AIRFRAME MATERIAL		
BUILDING MATERIAL		
COMPOSITE MATERIAL		
FIBROUS MATERIAL		
FORMED MATERIAL		
HIGH TEMPERATURE MATE	RIAL	
IMPREGNATED MATERIAL		
INSULATING MATERIAL		
LAMINATED MATERIAL	4,612-1	
MAGNETIC MATERIAL		
ORGANIC MATERIAL		
POROUS MATERIAL PYROLYTIC MATERIAL		
PYROLYTIC MATERIAL RADIOACTIVE MATERIAL		
REACTOR MATERIAL		
REINFORCED MATERIAL		
SEMITRANSPARENT MATER	ITAL	
STRUCTURAL MATERIAL		
THERMOELECTRIC MATERI	-	
TRANSPARENT MATERIAL		
TERIAL REMOVAL		
F MACHINING	PLOSIVES - PRESSURE	
	NDENCY IN DETONATION A	REA
TERIAL TESTING		
CF CRACK		
CF ENVIRONMENTAL TESTING	1000	
CF FATIGUE CF NONDESTRUCTIVE TESTIN	ic .	
VARIABLE-AMPLITUDE FAT		LOAD 02-33

ARL/SH-288 A CRITICAL APPRAISAL OF MATERIALS TESTING N63-10930 02-17 POWDER METAL AND SILICON-CARBIDE BASE MATERIALS THERMAL RADIATIVE PROPERTIES OF SELECTED MATERIALS INCLUDING TITANIUM ALLOYS, STAINLESS STEELS, SUPERALLOYS, REFRACTORY METALS, AND COATINGS MATERIALS SELECTION FOR LARGE SOLID ROCKET MOTOR CASES BASED ON WEIGHT, MISSION, LOAD, AND ENVIRONMENT HIGH TEMPERATURE REACTOR MATERIALS - STRESS-RUPTURE TESTS - RADIATION EFFECTS N63-12493 06-33 DETERMINATION OF VISCOELASTIC MODEL CONSTANTS FROM DYNAMIC MECHANICAL PROPERTIES OF MATERIALS BRL-1180 N63-12679 DEVELOPMENT OF CATALYST SCREEN ELECTRODE STRUCTURE TO TEST POWDERED ELECTRODE MATERIALS FOR HYDROCARBON FUEL CELLS - METHANE SERIES RESULTS 09-06 STRESS-STRAIN PROPERTIES OF BRITTLE MATERIALS TO VERY HIGH TEMPERATURES N63-14498 10-33 TID-17887 TESTING BEARING MATERIALS FOR PROCESS FLUID LUBRICANTS N63-14816 11-17 COMBINED EFFECTS OF RADIATION AND VACUUM, AND OF RADIATION AND CRYOGENIC TEMPERATURE ON ENGINEERING MATERIALS N63-15349 12-19 HATERIAL TESTING AT HIGH PRESSURES BIBLIOGRAPHY N63-15654 MATERIAL BEHAVIOR IN RANDOM STRESS-TEMPERATURE-TIME ENVIRONMENT N63-16054 13-18 ELECTRON BEAM HEAT SOURCE FOR HIGH TEMPERATURE MATERIALS TESTING FACILITY - ELECTRON GUN, POWER SOURCE, BEAM SWEEP ANGLE MODIFICATIONS N63-16067 13-10 FAILURE MECHANISMS IN ELECTRONIC COMPONENTS AND MATERIALS - TEST METHODS DEVELOPMENT, RESULTS FOR SEMICONDUCTORS, TRANSISTORS, DIODES, FERRITES SUPERSONIC TRANSPORT MATERIALS - NASA PROGRAMS NASA-TN-D-1798 N63-16296 EFFECT OF NUCLEAR RADIATION ON MATERIALS AT CRYOGENIC TEMPERATURE ER-6047 N63-16548 14-24 SUPERALLOYS FOR SUPERSONIC TRANSPORTS - INFLUENCE OF NOTCH ACUITY ON NOTCH STRENGTH OF RENE 41, MASPALOY, AND D979 ALLOY MASA-CR-50178 N63-16562 14-33 DYNAMICS OF STRUCTURES AND MATERIALS - STRESSES AND LOADS N63-16603 14 14-34 TESTING OF STRUCTURAL MATERIALS AT HIGH STRAIN RATES - RATE DEPENDENCE OF DYNAMIC RESPONSE TO LOADING OR DEFORMATION - TEST METHODS EVALUATION N63-16604 14-33 METHODS FOR PREDICTING BRITTLE FRACTURE TEMPERATURES OF ROLLED ARMOR STEEL - SURFACE VEHICLE DESIGN APPLICATIONS - STRUCTURAL DYNAMICS

COMPARISON OF DYNAMIC AND STATIC TEST RESULTS FOR YIELD STRESS OF STEEL GUN TUBES AT HIGH LOADING

-33 -17 -18 ALS -13 R

-33 RON -33 URE -06

1-17 0F 2-19 0HY 2-01

3-18 ER 3-10 FOR 3-25

4-24 NCE 4-33 S 4-34

ON 4-33

ICS 4-18

FOR

RATES - DYMANIC TESTING APPARATO			MASA-TR-O-ELZS	M03-53150	24-34
- EADRITTLERENY RECHANGER: .	M63-16611	14-18 1 H T Y A B	TESTING MATERIALS FOR POWER GENE		
APPARATUS FOR DETERMINING DYNAM! OF STRUCTURAL MATERIALS AT VARIA RATES			MEASURED EFFECTS OF THE VARIOUS NUCLEAR RADIATION. VACUUM, AND C	N63-23503 COMBINATIONS	24-19 OF
HIGH LOADING RATE TENSILE TESTIO	G MACHINE -	WEAPON			RES ON
MATERIALS TESTING APPLICATIONS -	H63-16618	14-17	NASA-CR-52319 MATERIALS EROSION 1 CMA BROCKARTA	N63-23007	24-19
MEDIUM LUADING RATE TENSILE TEST MEAPON MATERIALS TESTING APPLICA DYMANICS	TING MACHINE TIONS - STRI N63-16619	CTURAL	EROSION RESISTANCE AND FAILURE M MOZZLE HATERIALS IN SMALL SOLID- ROCKET ENGINE	ECHANISMS OF PROPELLANT	DEARS'S WAYSES
M5-51 NESSI-SAM		1017E-1410		M63-12931	07-27
PHOTOELASTIC STUDIES OF DYNAMIC HODULUS MATERIALS — HIGH SPEED I POLARISCOPIC TECHNIQUES — STRUCT	PHOTOGRAPHIC	STREET	MATERIALS SCIENCE	CHARGE STATES	-NOTIV
IMPACT DEVICE FOR NEASURING RESI STRENGTH MATERIALS TO DYNAMIC LO DYNAMICS		TURAL	CF PLASTIC MATERIAL MATERIALS SCIENCE, METALLURGY - ASD-TDR-62-396	M63-10745	02-18
STRUCTURAL ANALYSIS OF COPPER-AI	NTI MONY-SELE	14-18	EFFECTS OF SPACE ENVIRONMENT ON SYMPOSIUM	MATERIALS - M63-10912	02-01
CYCLING FATIGUE BEHAVIOR OF NATI	19705 19 1224	1131081	MATERIALS FOR ROCKET MOZZLES	N63-10919	02-13
SUPERSONIC TRANSPORTS - TENSILE MASA-CR-50365			SPACECRAFT MATERIALS RELIABILITY	PROGRAM N63-10933	02-17
SOLID PROPELLANT ROCKET ENGINES FOR HOZZLE EFFICIENCY	- MATERIAL 1 N63-17239	15-33	MATERIALS AND CONSTRUCTION UNDER HEATING	SEVERE KINE M63-11078	TIC 03-34
THERMOELECTRIC MATERIALS - TELL OF COPPER, LEAD, NICKEL & BISHU	MIDES & SULI TH N63-17896	16-18	AIR FORCE MATERIALS RESEARCH - C METALLURGY, LUBRICANTS, FLUIDS, MADC-TR-53-373, SUPPL. 9	ERAMICS, GRA AND FUELS N63-11239	PHITE, 03-01
STANDARDIZATION OF REENTRY MATER PLR-117	NEST TESTIM	17-30	PHYSICAL AND CHEMICAL PRINCIPLES REFRACTORY MATERIALS FOR ROCKET		03-10
COMPATIBILITY OF CESSUM WAPOR W MATERIALS - REFRACTORY METAL, PI LIGHT METAL & NOMMETAL AT HIGH MASA-TH-D-1739	TH SELECTED RECTOUS METAI TEMPERATURES MA3-19450	TEST	MATERIALS FOR SPACE EXPLORATION MASA-SP-27	M63-11517	03-19
MATERIAL EVALUATION FOR LITTLEJO RELEASE PIN	- 1019101	ALBEITAN	SPACE POWER SYSTEMS - EMISSIVITY MATERIALS FOR SMAP-8 POWERPLANT PWA-2088	OF CANDIDAY	
NS-TR-63-8	N63-19877	19-34	PROPERTIES OF METALS AND ALLOYS	FOR AIR WEAT	ONS
ARRY MATERIEL COMMAND AND OTHER RESPONSIBLE FOR ARRY OPERATION FOR MATIONAL DEFENSE	DEPARTMENTS MATERIAL TES M63-20364	TING 20-04	ARDC-TR-59-66 AIR WEAPONS MATERIALS - METALS /	M63-11721	04-18 BUSTTAR
ACTING WAYER INC. FOR COTANGENERS	MEDIC OF SEM	2131013	HANDBOOK	SAM ALL SAM TO	04-18
CONCRETE MATERIALS - METHODS OF	N63-20454	20-19	ARDC-TR-59-66, SUPPL. I THERMAL RADIATIVE PROPERTIES OF	N63-11722 SELECTED NAT	20152846
MATHEMATICAL THEORY OF ELASTICI'S OF BRITTLE MATERIALS AT VARIOUS	TEMPERATURE	201.10	DRIC-177, VOL. 2	M63-11916	04-13
ASD-TDR-63-490 MUJHT1J 10 ZJATA	M63-20771	21-33	ADVANCED NUCLEAR ROCKET MATERIAL TID-16315/DEL./	#63-12211	05-27
MATERIAL EVALUATION FOR DESIGN SPHERICAL PRESSURE VESSELS AND	REINFORCEMEN N63-21060	T RINGS	FLAME CONTACT DETERMINATION OF TO	and the second	
DIFFERENTIATION OF OUTGASSING A PRODUCTS OF MATERIALS ON EXPOSU	ND EVAPORATION	ON NO SEC	NADC-MA-6217 REACTOR RED - FUELS, MATERIALS	AJALESCES, S	07-13 CFLL
PRESSURES NASA-TH-X-50413	M63-21365		NONDESTRUCTIVE TESTING, PLUTONIC REACTOR HN-75914 PRESENTED TRANSPORTED	M RECYCLE TE	ST
MATERIALS TESTING INDEX	M63-21660	22-19	MAYERIALS RED - CHEMISTRY, BIOCI	EHISTRY, MAT	TERTALS
EVALUATION OF STEEL ALLOY - MAX	ELLOY 863-21870	22-18	SCIENCE, METALLURGY, AND SOLID S ABSTRACTS	NG3-13213	07-01
MECHANICAL PROPERTY TEST METHOD	-00 -00	(A213804	MATERIAL SCIENCES - TEST METHOD: CORROSION - CHEMISTRY, ANALYSIS	AND SYNTHES!	IS METHOR
MATERIALS ASD-TDR-63-491	M63-22391	23-17	BALEN OF AMELASAL SPATASAL SA	N63-13234	
BEHAVIOR OF MATERIALS EXPOSED T ROCKET ENGINE EXHAUST - NOZZLE	D SOLID PROP	ELLANT	FATIGUE TESTING OF TURBINE BUCK UNDER STATIC AXIAL AND VIBRATIO	HAL BENDING I MG3-13236	LOADS 07-33
ATD-TOR-63-1038 DETERMINATION OF EMISSIVITY OF	M63-22733 MATERIALS	23-27	RECORDING OF TIME-DEFORMATION DI TESTING AY 1200-DEG F		
MASA-CR-51858	M63-22882	23-10		CONTROL ORDER	12.84-30

MATERIALS—RESEARCH AREAS OF IMPORTANCE TO MISSILE

QUANTITATIVE AMALYSIS OF ELASTOMERS BY INFRARED SPECTROSCOPY M63-13230 97-07

TEST METHOD FOR MEASURING CORRO	N63-13239	RICAL 07-15
FLUORINE-CONTAINING 1,2-EPOXIDE STABLE ELASTOMERS	S FOR THERMAL N63-13240	LY 07-07
DERIVATIVES OF FERROCENE - PART	I, METALLATI N63-13241	
DERIVATIVES OF FERROCENE - PART PRODUCTS OF BENZOYLFERROCENE AN FERROCENE	D 1,1-DIBENZO	YL-
DERIVATIVES OF FERROCENE - PART AND ALKYLFERROCENES	3, ACYLFERRO N63-13243	
VULCANIZATION OF FLUORINE-CONTA HEXAFLUOROPROPYLENE-VINYLIDENE VITON-A RUBBER		LYMER,
STRAIN AGING EFFECTS IN NIOBIUM EMBRITTLEMENT	DUE TO HYDRO N63-13245	
EFFECT OF GRAVITY ON FREE CONVE	CTION HEAT TR	ANSFER
BY ELECTROMAGNETIC BODY FORCES	N63-13246	07-13
INITIAL YIELDING AND FRACTURE I	N NOTCHED SHE N63-13247	
REACTOR MATERIALS, FUEL ELEMENT	S, IRRADIATIO	N AND
RELATED SUBJECTS BMI-1603/DEL./	N63-13309	07-01
MATERIALS FOR STEAM TURBINES FTD-TT-62-1273/16264	N63-13583	08-18
THERMODYNAMIC PROPERTIES OF MET	ALS AND ALLOY N63-13839	
MAGNETIC QUANTITIES AND MAGNETI	C PROPERTIES	OF
MATERIALS NBS-MONOGRAPH-47	N63-14846	11-23
MATERIALS SCIENCE - METALLURGY, ENGINEERING, CERAMICS	CHEMICAL N63-14944	11-07
INVESTIGATION OF COMBINED EFFECT VACUUM ON STRUCTURAL MATERIALS CRAFT COMPONENTS - MATERIALS SC	FOR NUCLEAR SI	PACE-
FZK-147	N63-15057	
FATIGUE TESTING - METHODS, MACH AND ANALYSIS OF RESULTS	N63-15239	11-33
BIBLIOGRAPHY - COLD WELDING IN SCIENCE SB-63-5	VACUUM - MATE	
PRACTICAL CRITERIA FOR THERMAL ROCKET NOZZLES - DETERMINATION	PROTECTION OF	
MATERIALS FOR JACKET & CASING II	NSULATION	
MATERIALS PROPERTY DATA - HIGH TRICTION MATERIALS, CORROSION RE		
AND HIGH TEMPERATURE PROTECTIVE	COATINGS N63-15883	
BIBLIOGRAPHY ON HIGH TEMPERATURE		
PHYSICS OF MATERIALS IN CONDENSE	ED STATE N63-15927	
DEVELOPMENT OF MATERIAL FOR THE	RMAL ENVIRONME N63-16063	ENT 13-17
SUPERSONIC TRANSPORT MATERIALS - NASA-TH-D-1798	HASA PROGRAM	4S 13-18
HIGH ENERGY RATE METAL MORKING I METALLURGY, MATERIALS SCIENCE		
NA62H-46	N63~16334	13-17
PROTOTYPE HIGH TEMPERATURE GAS (MATERIALS SCIENCE, REACTOR CORE, CONTROL ROD DRIVES GA-3676	REFLECTOR,	14-15

MATERIALS SCIENCE AND ENGINEERING

N63-17620 16-01 MATERIALS SCIENCE - EMBRITTLEMENT MECHANISM. PARTICLE BEAM EFFECTS & STRAIN RATE EFFECTS IN MATERIALS MANUFACTURING N63-18023 16-17 CAL-NH-1559-P-3 NBS 1962 RESEARCH HIGHLIGHTS - PHYSICS, CHEMISTRY, ELECTRONICS, AND MATERIALS SCIENCE N63-18651 17-01 METALLURGY RESEARCH - CHEMICAL AND PHYSICAL METALLURGY, REACTOR METAL RESEARCH AND MATERIAL ENGINEERING CYCLIC TEMPERATURE EFFECTS ON METAL MATERIALS AND STRUCTURES - MATERIALS SCIENCE N63-18723 AGARD-410 MATERIAL PROPERTY HANDBOOK - MAGNESIUM, NICKEL AND TITANIUM ALLOYS FOR STRUCTURAL USE IN AIRCRAFT MATERIALS RESEARCH - MATERIAL SCIENCE, LIQUID AND SOLID MATERIALS, RADIATION EFFECT, TRANSPORT PROPERTIES, ELECTRIC AND THERMAL PROPERTIES ACR-61 N63-19211 PURIFICATION AND STOICHIOMETRY OF ELECTRONIC SEMICONDUCTOR MATERIALS AFCRL-63-160 N63-19525 19-07 RESONANCE DAMPING FOR THIN, VIBRATING PLATES -CORRELATION OF DYNAMIC VISCOELASTICITY & THIN PLATE THEORIES IN MATERIALS MECHANICS ASD-TDR-63-411 N63-20305 MATERIALS SCIENCE RESEARCH AND TESTING AND THE EFFECTS OF SPACE ENVIRONMENT N63-20885 USING ULTRAHIGH PRESSURE IN MATERIALS SCIENCE LABORATORIES H63-21029 21-23 ERR-FW-192 MATERIAL SCIENCE - MATERIAL RESEARCH INFORMATION CENTER ORNL-RMIC-1 N63-22541 AVAILABILITY OF HIGH PURITY INORGANIC SOLID STATE RESEARCH MATERIALS THROUGH INFORMATION CENTER N63-22542

S

VITA

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SI EI

AI

ME

23-19

PURIFICATION OF STARTING MATERIAL FOR POTASSIUM CHLORIDE SINGLE CRYSTALS, PROBLEMS OF RECONTAMINATION & VERIFICATION OF PURITY N63-22543 23-19

SOLID STATE STUDIES OF ISOTOPIC EFFECTS USING CHEMICALLY PURE CRYSTALS OF LITHIUM FLUORIDE & INTERMEDIATE MIXTURES OF LITHIUM ISOTOPES

VARIATIONS IN IRRADIATION COLORING PROPERTIES, LUMINESCENCE & LIGHT SCATTERING IN POTASSIUM CHLORIDE CRYSTALS N63-22545 23-19 OAK RIDGE LIST OF AVAILABLE AND REQUIRED N63-22546 23-19 MATERIALS

BASIC MATERIALS RESULTING FROM NUCLEAR ROCKET REACTOR STUDY - FUEL TESTING ANL-6656 N63-22759

BIBLIOGRAPHY OF 1962 ENGINEERING MATERIALS NASA-TH-X-50836 N63-23032 24-19

HATHEMATICAL ANALYSIS CF MATRIX AMALYSIS
CF STATISTICAL AMALYSIS
SYNTHESIS OF TRANSFER FUNCTIONS USING IMMITTANCE

OPERATORS AFCRL-62-320 N63-10137 ORDER STATISTICS AND DESIGN OF EXPERIMENTS -TESTING N63-10156 01-20 -01

-17 RY, -01

-18 HD -33 AND -18 ND -23

-07

-33

-31

-23

-19

-19

-19 -19 -27

-19

Eos

-09

-20

N -19 TE -19 4-50

AXIONATIC THEORY OF CONTROL SYSTEMS N63-10166 01-20	MATHEMATICAL ANALYSIS OF CARTOGRAPHIC PHOTOGRAPH DISTORTION CAUSED BY CONICAL SHOCK WAYES
REPRESENTATIONS FOR CLASS-K TRANSFER FUNCTIONS AFCRL-62-770 N63-10190 01-20	MATHEMATICAL ANALYSIS OF GROUP BEHAVIOR AND
MODAL CHARACTERISTICS OF NONUNIFORM THIN CIRCULAR RINGS	JUDGEMENT PRL-TDR-63-3 N63-16123 13-14
JPL-TR-32-252, ADD. 1 N63-10246 01-20	MATHEMATICAL ANALYSIS OF THERMAL NEUTRON LEAKAGE IN HEXAGONAL LATTICE
PHYSICAL INTERPRETATION OF THE EXTRA SOLUTIONS OF THE DIRAC EQUATION FOR STRONGLY COUPLED YUKAWA	CRRP-11474861 226 N63-17178 15-20
POTENTIALS JPL-TR-32-341	OPTIMIZATION OF PRODUCTION - MATHEMATICAL AMALYSIS N63-18364 17-20
MATHEMATICAL AMALYSIS OF ANGULAR MOMENTUM NASA-TT-F-98 NO3-11498 03-23	PHYSICO-MATHEMATICAL ANALOGIES BETWEEN MOTIONS IN ATMOSPHERE AND INTERSTELLAR SPACE
SEMIEMPIRICAL METHOD FOR CALCULATION OF	N63-18918 18-02
SLATER-CONDON PARAMETERS OF ATOMS AND IONS N63-12049 05-23	MATHEMATICAL ANALYSIS OF MIXING OF T EQUALS 0 AND T EQUALS 1 COLLECTIVE STATES IN GIANT RESONANCE REGION OF DXYGEN-16 - MAVE FUNCTIONS
VALIDITY CONDITIONS FOR RANDOM-VARIABLE-T IN TWO-WAY CLASSIFICATION WITH UNEQUAL VARIANCES	N63-18989 18-23
AROD-2579-13 N63-12095 05-20 L AND K KERNELS ON ARBITRARY RIEMANN SURFACE	MATHEMATICAL ANALYSIS OF DIFFERENTIAL EQUATIONS USING PERIODIC EQUATIONS AND SET THEORY NASA-CR-50715 N83-19029 18-20
AROD-1517-44 -/ N63-12127 05-20	MATHEMATICAL ANALYSIS OF MATRICES BY LR
SET OF MAXIMUM COMPATIBILITIES FOR INCOMPLETELY SPECIFIED SEQUENTIAL SMITCHING FUNCTION	TRANSFORMATION - FACTORIAL ANALYSIS NYO-10429 N63-19337 18-20
PIBMRI-1084-62 N63-12323 05-09	NATHEMATICAL ANALYSIS OF CONVECTIVE HEAT TRANSFER
CONVERGENCE OF RECURRING SERIES WITH GENERAL ORDER RECURRENCE RELATIONS - MATRIX TECHNIQUE N63-12381 06-20	IN NUCLEAR ROCKET NOZZLE NASA-TN-D-1742 N63-19651 19-13
NRC-349 N63-12381 06-20 IDEMPOTENTS IN GROUP ALGEBRA - COMMUTATIVE AND	MATHEMATICAL ANALYSIS OF PROGRESSIVE RELIABILITY FUNCTIONS - FAILURE DISTRIBUTION
NONCOMMUTATIVE GROUP PROPERTIES NRC-361 N63-12388 06-20	AFCRL-63-163 N63-19669 19-20
THEOREMS CONCERNING SLOWLY VARYING FUNCTIONS -	MATHEMATICAL ANALYSIS OF MOTION EQUATIONS FOR MOMENTS AND MOMENTS OF MOMENTUM FOR SIX DEGREES OF
EXTENSIONS OF ASYMPTOTIC BEHAVIOR OF LAPLACE TRANSFORM OF REGULARLY VARYING FUNCTIONS NRC-369 06-20	FREEDOM OF RIGID BODY RS-TR-62-4 N63-19850 19-23
	MATHEMATICAL THEOREM-PROVING BY COMPUTER SEMI-
MATHEMATICAL DESCRIPTION OF LINEAR DYNAMICAL SYSTEMS N63-12655 06-09	AUTOMATION AFCRL-63-188 N63-20437 20-20
ASYMPTOTIC CONVERGENCE OF RENORMALIZED PERTURBATIVE EXPANSIONS OF PROPAGATION KERNELS N63-12673 06-20	RELIABILITY - MATHEMATICAL ANALYSIS, TESTING, HUMAN FACTORS, & QUALITY CONTROL - BIBLIOGRAPHY SCR-998 N63-22090 22-06
NEW DERIVATION OF EQUATIONS OF ALREADY-UNIFIED	RADIAL LIMITS OF QUASI-CONFORMAL FUNCTIONS -
FIELD THEORY N63-12745 06-20	MATHEMATICS MRC-406 N63-22616 23-20
RIESZ ANALYTIC THEOREM APPLIED TO MEASURES OF BOUNDARY VALUES OF VECTOR FUNCTIONS - VALUES IN BANACH SPACE MRC-370 N63-13334 OB-20	HIGH ORDER PERTURBATION THEORY USING RECTANGULAR COORDINATES - MATHEMATICAL ANALYSIS AIAA PAPER-63-391 M63-23065 24-23
PROGRAMMING APPROXIMATE SOLUTION OF AXIALLY SYMMETRIC PROBLEMS - DIRICHLET PROBLEMS OF	NUMERICAL APPROXIMATIONS TO SOLUTIONS OF MULTIGROUP TRANSPORT EQUATION IN INFINITE
REC-377 N63-13337 08-20	CYLINDRICAL GEOMETRICAL SHAPES WAPD-TM-396 N63-23800 24-23
MATHEMATICAL CORRELATION OF TURBULENT DIFFUSION	OPTIMUM NONLINEAR CONTROL OF MULTIVARIABLE SYSTEMS
AND BROWNIAN MOTION OF PARTICLES AFCRL-62-1107 N63-13689 08-20	BY MATHEMATICAL ANALYSIS NASA-CR-52226 N63-23815 24-09
STATESPANDE OTOPANTES STATES	MATHEMATICAL MODEL
MATHEMATICAL ANALYSIS OF COMPLEX SYSTEMS - QUEUING THEORY, LANCHESTER THEORY OF COMBAT, GAME THEORY, HUMERICAL METHODS, SIMULATION AND MARKOV MODELS AFCRL-63-38 N63-13978 09-20	TRACKING SYSTEMS, MATHEMATICAL MODELS & ERRORS NASA-TN-D-1471 N63-10177 01-08
RECURSION RELATION DEVELOPED FROM CERTAIN	MATHEMATICAL MODEL OF THREE-AXIS STABILIZED
DETERMINANTS, COMPUTATIONAL ROUTINE TO EVALUATE SUCH DETERMINANTS	PLATFORM SAD-93 N63-10455 01-22
NASA-TN-D-1112 N63-14249 10-20	INTERIOR BALLISTIC ANALYSIS OF TRAVELING CHARGE HYPERVELOCITY GUN - MATHEMATICAL MODEL
MATHEMATICAL ANALYSIS OF NUCLEAR RADIATION, NEUTRON DAMAGE TO TRANSISTORS	N63-11712 04-11
TR-975, SUP. 1 N63-15513 12-09	MATHEMATICAL STUDY ON KINETIC THEORY OF GASES - ONE-DIMENSIONAL MATHEMATICAL MODEL FOR BOLTZMANN
PARTICULAR SOLUTIONS OF LINEAR PARTIAL DIFFERENTIAL EQUATIONS USING INTEGRAL OPERATOR	EQUATION TCEA-TN-10 N63-11747 04-20
METHOD - ALGOL COMPUTER PROGRAM N63-15523 12-20	KINETIC ANALYSIS OF CONSECUTIVE-REACTION MODEL
M2-10 CHIII-KAM	SYSTEMS AND ONA MAISTO TRUNKING THE TROUB MANAGEMENT TO

03-20

03-20

LIAPUNDY FUNCTIONS - AUTOMATIC CONTROL N63-11343

UCRL-10575	N63-12421	06-07	FOR GROUND CONTROL OF AIR TRAFFIC N63-21410	22-1
USE OF MATHEMATICAL MODEL TO I NONLINEAR YAW-INDUCED ROLLING STABILITY OF A BOMB SAD-102		ENTS ON	SCIENTIFIC MANAGEMENT - RELIABILITY TESTING, OF MATHEMATICAL MODELS AND ECONOMIC ASPECTS PROCEDURES N63-21721	USE
ECONOMICS-MATHEMATICAL ANALYSI MODERNIZATION WITH MATHEMATICA PROGRAM		APUTER	CLASSICAL ANALYTIC MECHANICS FOR SIMULATION SPACE VEHICLE MOTION & PERFORMANCE - MATHEMA MODELS OF MISSILE TRAJECTORY	
RH-3551-PR	N63-14865	11-20	LMSC-TR-3-80-61-2 N63-22329	23-1
MATHEMATICAL MODELS - MATRIX I PROCESSING. CONTROL AND STORAG ORNL-3430		DATA 14-20	MATHEMATICAL STATISTICS PROBABILITY INTEGRALS OF MULTIVARIATES, STAT AND BIBLIOGRAPHY N63-10528	15T1C
MATHEMATICAL MODELS - PROBABIL MRC-390	.ITY THEORY N63-16589	14-20	COMPLETE CONFOUNDING OF INTERACTIONS WITH SU BLOCKS IN FACTORIAL EXPERIMENTS - MATHEMATIC STATISTICS	
MATHEMATICAL MODELS - OVERDAMP TIME DOMAIN - CIRCUIT ANALYSIS	ED PROCESSES	IN THE	JPRS-16992 N63-11497	03-2
CONTROL SYSTEMS PIBMRI-1131-63	N63-16592	14-20	A DATA REDUCTION METHOD FOR COMPUTING EFFECT ADDITIONAL OBSERVATION ON PREVIOUS LEAST-SQU	
DYNAMIC LOAD FACTOR FOR MISSIL MASS-SPRING MATHEMATICAL MODEL	E STRUCTURE C	ESIGN -	ESTIMATES NASA-TN-D-1599 N63-11620	04-2
FORCING FUNCTION - STRUCTURAL	DYNAMICS N63-16626		LINEAR UNBIASED ESTIMATION OF LOCATION AND S PARAMETERS OF WEIBULL DISTRIBUTION - STATIST	ICS
OCTET MODEL AND WEAK ELECTRONA		CTIONS,	N63-11667	04-2
LIE GROUP - MATHEMATICAL MODEL	N63-16898	14-20	VALIDITY CONDITIONS FOR RANDOM-VARIABLE-T IN TWO-WAY CLASSIFICATION WITH UNEQUAL VARIANCE ARDD-2579-13 N63-12095	
RADIOPHYSICS - METABOLIC MODEL RADIOACTIVE ALKALINE EARTH ISO MATHEMATICAL POWER FUNCTION		15-16	UNEQUAL PROBABILITY SAMPLING PROCEDURES AND ASYMPTOTIC THEORY WITH FINITE POPULATION ARDD-2934-3 N63-13343	08-2
FREE SPHEROIDAL VIBRATION OF M OF EARTH AT LONG PERIODS LAMONT GEOL. OBS. CONTR606	N63-17502	16-12	PROBABILITY THEORY - POPULATION MEAN ESTIMAT USING RATIO AND REGRESSION IN MULTISTAGE SAM	ION
MATHEMATICAL AND EXPERIMENTAL	MODEL FOR ROT	ATING	AROD-2934-7 N63-13344	08-2
DETONATION WAVE ROCKET ENGINE	N63-18346	17-27	RELATIVE EFFICIENCY OF SAMPLING METHODS OF POPULATION MEAN	
DEPTH-DOSE RATE OF NEUTRON IRR	ADIATION OF H	IUHAN	AROD-2934-8 N63-13345	08-2
BODY - MATHEMATICAL MODELS UCRL-10267	N63-18348	17-16	DATA TRANSFORMATION HEURISTICS FOLLOWING CUR THEOREM USING PROBABILITY AND REAL FUNCTION MRC-355 N63-14503	
MATHEMATICAL MODELS FOR DESIGN NOZZLE AND PREDICTION OF THRUS ISENTROPIC FLOW USING IBM 1401 NASA-CR-50411	T COEFFICIENT	FOR RAMS	TABLE OF MEAN SQUARE EXPECTATIONS & VARIANCE RATIOS FOR TESTING NULL HYPOTHESES IN ANALYS VARIANCE FOR 2, 3, & 4-MAY CROSSED CLASSIFIC NWL-1833	IS OF
MATHEMATICAL MODEL FOR EXTREME VELOCITY PROFILE BASED ON MULT DISTRIBUTION OF HORIZONTAL COM	IVARIATE GAUS		MATHEMATICS - NUMERICAL ANALYSIS, MEDICAL STATISTICS, AND PROGRAMMING	
NASA-TN-0-1813	N63-18461	17-33	ORNL-3423 N63-15047	11-2
MATHEMATICAL MODELS FOR INTERP ANOMALIES - GRAVIMETRIC PAPERS		ATIONAL 17-12	MATHEMATICAL TABLES OF PROBABILITY DENSITY OF NONCENTRAL T-DISTRIBUTION - STATISTICS ARL-63-19 N63-15225	
MATHEMATICAL MODEL AND TESTS OF DETONATION WAVE ROCKET ENGINE O OXYGEN AS PROPELLANTS		N AND 18-27	ASPECTS OF CONSTRAINED RANDOMIZATION - MATHEMATICAL STATISTICS AND PROBABILITY THEOL ARL-63-18 N63-15575	RY 12-2
DISCRETE VELOCITY MODEL APPLICATION OF THE PROPERTY OF THE PRO			ESTIMATION AND TESTING OF PARAMETERS OF DISTRIBUTIONS BY ORDER STATISTICS - MATHEMATI STATISTICS AND BIOSTATISTICS	ICAL
MATHEMATICAL MODEL FOR ASSOCIAT		STATISM	AROD-2776-11 N63-15812	13-0
OF ASSOCIATIVE ADDRESSING AND I			SIMPLE ASYMPTOTICALLY CHI-SQUARE STATISTIC FO DISTRIBUTION OF RUNS SCR-222A N63-17570	
GEOMETRIC MATHEMATICAL MODEL OF PATTERN RECOGNITION	BLUNS THEOR	Y OF	SCR-222A N63-17570 MATHEMATICS /GEN/	16-2
AFCRL-63-164	N63-19524	19-14	CF ALGEBRA CF CALGULUS	
RESPONSE OF CANTILEVER BEAM TO CORRELATION OF SEMI-EXPERIMENTA MATHEMATICAL MODEL		NG - 21-33	CF GEOMETRY CF HARMONIC ANALYSIS COMPUTER ENGINEERING AND MATHEMATICS	
SPACE DETECTION AND TRACKING SY MATHEMATICAL MODEL TO DESCRIBE			JPRS-16490 N63-10538 CALCULATING METHODS FOR DATA PROCESSING JPRS-16783 N63-11204	01-2
U-2202	N63-20998	21-32	JPRS-16783 N63-11204	03-2

MATHEMATICAL MODEL OF AIRPORT DESIGN AND CAPACITY

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SEA MERKENSON

A PROBLEM IN OPTIMAL MONLINEAR CONTROL M63-11352		MATRIX SA RANDOM MATRIX CALIFOLIATE MELMAN SA SPERNER LEMMA	
INTEGRAL EQUATION OCCURRING IN PLASMA OSCI N63-11431	LLATIONS 03-20	CF GRID CF LATTICE TWO-PARAMETER CONTROL, STABILITY	REGIGINATES TH-NO
BOUNDS FOR THE PRINCIPAL FREQUENCY OF NONU	NIFORMLY	FTO-TT-62-784/162	N63-10355 01-09
LOADED STRINGS MRC-341 N63-11448	03-20	MATRIX METHOD APPLIED TO GIBBS WITH APPLICATIONS TO FLIGHT DYNA	ECTORS AND DYADICS
LINEAR TRANSFORMATIONS OF A FUNCTIONAL INT MRC-346 N63-11452	03-20	REPUBLICATION OF MAYE CONCELOUS	N63-10513 01-20
NATRICES OF LINEAR OPERATORS	140 14	DIGITAL COMPUTER ANALYSIS OF STA	TICALLY
MRC-362 N63-11454	03-20	NASA-TN-0-1666 MA MARATA MATERIAL	N63-10801 02-33
A FINITE DIFFERENCE METHOD FOR THE NEUMANN DIRICHLET PROBLEMS	01010	NONLINEAR SHALLOW SHELL ANALYSIS FORCE METHOD	N63-10861 02-33
NYO-9760 N63-11491	03-20	MATRIX ISOLATION STUDIES OF HIGH	TEMPERATURE 13
GENTLE PERTURBATIONS - MATHEMATICAL OPERAT IMM-NYU-295 N63-11622	ORS 04-20	SPECIES GROUP II CHLORIDES UCRL-10451	N63-10863 02-07
POLARIS PROGRESS REPORT, MAY 1962 - MATHEM	ATICS -	EVALUATION OF MATRIX ELEMENTS IN	
BOUNDARY LAYERS. ANISOTROPISM N63-11644	14.102	THEORY. TENSOR ALGEBRA, ELECTRON	WAVE FUNCTION N63-10994 02-20
BIBLIOGRAPHY - MATHEMATICS, SUBSONIC AND T	RANSONIC	MATRIX STRUCTURE OF HEATED AIRFR	
GAS DYNAMICS AROD-247-54 N63-11737		S-assi ason tangular na maka	N63-11079 63-34
THE PARTY OF THE P	50949	MATRICES OF LINEAR OPERATORS	965-11046 179-75
PSEUDO-SOLUTION TO SCHEDULING PROBLEM N63-12037	05-20	HRC-362 TINTAM PRITEDIL CMA 2 WAT COSESSON WOLLD BE SHEET	N63-11454 03-20
DISCRIMINANT OF HILL EQUATION	1 238	NEW PROOF OF KONIG THEOREM EUR-144.F	N63-11766 04-20
BR-39 N63-12090	05-20	BERS-BELTRAMI AND LINEAR ELLIPTI	
LINEAR ESTIMATION IN STOCHASTIC PROCESSES BB-311 N63-12215		PARTIAL DIFFERENTIAL EQUATIONS	N63-12385 06-20
SHORT METHOD FOR FINDING FOURIER SERIES		SMALL PERTURBATION MATRIX APPROA	
COEFFICIENTS N63-13095	07-20	OF PARALLEL CHANNEL BOILING FLOW	
THEORY OF STABILITY OF MOTION - LIAPUNOV T AEC-TR-3352 N63-13212		NEW DERIVATION OF EQUATIONS OF A	LREADY-UNIFIED
A CONVOLUTION PRODUCT FOR DISCRETE FUNCTIO	A THEORY	FIELD THEORY	N63-12745 06-20
AROD-223-59 N63-13224		FLEXIBILITY MATRICES FOR ELEMENT VARIABLE CROSS SECTIONS UNDER GE	S OF CONSTANT AND
ARITHMETICAL SIMPLIFICATION OF BINOMIAL THUSING AUXILIARY VARIABLES N63-13229		ARL-SM-279	N63-12774 06-33
	M/AA	COMPUTER PROGRAM, MATRIX OPERATI	
COMPLEX MAN-MACHINE SYSTEMS, LOGICAL AND MATHEMATICAL CONCEPTS RELATED TO JPL/MASA		DYNAMIC PROCESSOR DX-1 AFCRL-63-39	N63-13610 08-20
FLIGHT OPERATIONS COMPLEX		SET OF MATRICES FOR TESTING COMP	
		MRC-325	
MATHEMATICS - NUMERICAL ANALYSIS, MEDICAL STATISTICS, AND PROGRAMMING		INERTIA THEOREMS FOR MATRICES -	THE SENT-DEFINITE
ORNL-3423 N63-15047	11-20	MRC-342	N63-14457 10-20
SPECTRAL FUNCTIONS OF SYMMETRIC OPERATOR NG3-16591	unsie 4	REALIZABILITY OF FUNDAMENTAL CUT	A PRINTED TO THE PRIN
		ORIENTED GRAPHS FOR ELECTRICAL A	ETWORKS, SWITCHING
DISCRETE, FINITE REPRESENTATION OF LINEAR, STATIONARY SYSTEM - MATHEMATICS	TRYAN -	R-143	N63-14554 10-09
RADC-TDR-63-124 N63-16919	14-08	- TYPE THE I THE WORLDAND ABOUT	(ED. 1913)7
ANNUAL REPORT, INDIAN INSTITUTE OF SCIENCE		ANALYSIS OF TRACE ELEMENTS IN AL MATRICES BY SPECTROGRAPHY	N63-14839 11-18
TO 1962 - CHEMISTRY, PHYSICS, METALLURGY, PHARMACOLOGY, MATHEMATICS & ENGINEERING	CAUCK .	4-AFCRL-63+3-888	MARKEN TATEON
N63-18302	17-01	ANALYSIS OF MAN-MACHINE SYSTEM -	
GENERALIZATION OF LAPLACE EXPANSION TO ARB	ITRARY	MATRIX-NETWORK, DECISION MAKING, BEHAVIOR	WAS-12012 TS-10
POWERS AND FUNCTIONS OF DISTANCE BETWEEN T	WOTT	AFOSR-4490 MET PROTTABLONGS XIA	N63-14954 11-20
NASA-CR-50851 N63-20211	20-20	LOCALIZED PERTURBATION ANALYSIS SYSTEMS BY USING HUCKEL THEORY N	
FURTHER RATIONAL APPROXIMATIONS FOR INCOMP	LETE	CYCLIC MATRICES	COMPUTING TRANS
GAMMA FUNCTION, BASED ON ONE OF ITS ASCEND		ARL-63-27 IT TO ART MANU IN DIRECT HE	N63-15310 12-23
SERIES REPRESENTATIONS NO. 100 N63-20309	AYON 7	APPLICATION OF BOOLEAN ALGEBRAIC	HATRICES TO
MATHEMATICAL PROGRAMMING AND USE OF COMPUT JPRS-21006 N63-23553	24-20	AFCRL-62-31	
THIEU FUNCTION		PLASTIC DEFORMATION THEORY FOR	
F DIFFERENTIAL EQUATION	PAULER M	MATERIALS FOR TUNGSTEN FIBER ROC COPPER-NICKEL, SILICON, ALUMINUM	6 TITANIUM
The Property of the American and American Meaning	61348	HO ES TABSE . SAN CHELANTA MANAGE	N63-15411 12-18
		The second second second second	

INFLUENCE OF FERMION STATISTICS MATRICES - MANY-PARTICLE PROBLE MECHANICS	
TN-80	N63-15461 12-23
THO-BODY T-MATRIX PROBLEM FOR PAPPLIED TO NUCLEAR CHARGE EXCHA	INGE
LA-2805	N63-15918 13-23
DIRECT PRODUCT REPRESENTATION OF COEFFICIENT MATRIX	
PROCEEDINGS CONTROL AND REGISTER	N63-16541 14-20
BOUNDS FOR ITERATES, INVERSES A VARIATION OF NON-NORMAL MATRICE	IND SPECTRAL
A PRODUCTION OF THE PARTY OF TH	N63-16830 14-20
WAVE FUNCTIONS, ENERGY LEVELS, ELEMENTS IN INTERMEDIATE COUPLI	AND REDUCED MATRIX
AF-105	N63-17609 16-25
ORDER STRUCTURE MATRIX, POSITIV	E LINEAR OPERATORS
	N63-18017 16-20
DENSITY MATRIX FOR ELECTRON GAS STRONG COUPLING - PERTURBATION DISTRIBUTION	
ARL-63-87	N63-18024 16-23
COLLISION LIFETIMES AND LIFETIME BODY AND MANY-BODY BREAKUP PROC NASA-CR-50450	
	and unital surely
RECTANGULAR TRANSFER MATRIX FOR NYU-TR-400-75	N-PORT NETWORK N63-19006 18-09
COMMUTATION RELATIONS OF THREE- UNIMODAL MATRICES SU-SUB3 - ELE PHYSICS	
ANL-6729	N63-19841 19-20
SPERNERS LEMMA AND SOME EXTENSI ANALYSIS	ONS - MATRIX N63-20388 20-20
INVERSION MATRIX FOR HELIUM-3 F	AST-NEUTRON
UCRL-10770	N63-20393 20-15
MATRIX DESCRIPTION OF WAVEGUIDE PRESENCE OF EVANESCENT MODES	DISCONTINUITIES IN
AFCRL-63-311	N63-20458 20-09
PROBLEMS IN COMPUTING TRANSITIO TRAJECTORIES	N MATRICES OF LUNAR
AIAA PAPER-63-400	N63-20494 20-29
INVERSION OF ORDINARY LINEAR DI IN MATRIX FORM FOR APPLICATION TRAJECTORY PERTURBATION PROBLEM	TO CLASS OF
	N63-20585 20-29
APPLICATION OF SCHWARZS MATRIX INEQUALITY TO IMPEDENCE OF LINE RADC-TDR-63-329	
FORTRAN PROGRAM FOR STIFF MATRI	X STRUCTURAL
DESIGN NASA-CR-51414	N63-21846 22-33
FIRST ORDER DENSITY MATRIX FOR DETERMINANT	PROJECTED SINGLE N63-22399 23-23
ELECTROLYTE MATRIX COMBINATIONS	FOR HERCURY-
POTASSIUM FUEL CELL	N63-22584 23-26
COMPUTING TRANSITION MATRICES B CALCULATIONS FROM CIRCUMLUNAR T NASA-TN-0-1812	
INVERSION OF OVERLAP MATRIX IN CONFIGURATION ATOMIC ORBITAL CACCRYSTALS	LIMITED LCULATIONS OF
	N63-22744 23-20
SYNTHESIS OF RESISTOR N-PORTS PIBHR1-1143-63	N63-22867 23-09

TRANSFORMATION OF AXES SYSTEMS BY MATRIX METHODS AND APPLICATION TO WIND TUNNEL DATA REDUCTION AEDC-TDR-63-224 N63-23666 MATRIX ANALYSIS
CONVERGENCE OF RECURRING SERIES WITH GENERAL ORDER RECURRENCE RELATIONS - MATRIX TECHNIQUE N63-12381 06-20 MRC-349 SWITCHING CIRCUITS - AMBIT METHOD, BOOLEAN POLYNOMIALS AND DIODE CIRCUITS BY MATRIX ANALYSIS PIBMRI-1043-62 N63-12642 MATRIX ANALYSIS OF BILINEAR TRANSFORMATION -BILINEAR MATRIX DESCRIPTION AND APPLICATION TO MICROWAVE NETWORK PIBMRI-1137-63 N63-15190 11-20 NUMERICAL ANALYSIS OF MATRIX USING ITERATIVE SOLUTION FOR IMPROVING RESULT OBTAINED BY GAUSSIAN ELIMINATION JPL-TR-32-394 N63-15317 12-20 SOLUTION OF POISSON EQUATION FOR BOUNDARY CONDITIONS BY APPROXIMATIONS - MATRIX ANALYSIS -IBM 709Q COMPUTER PROGRAM FOR ION BEAM NASA-TN-D-1711 N63-16162 MATHEMATICAL MODELS - MATRIX INVERSION FOR DATA PROCESSING, CONTROL AND STORAGE SYSTEMS N63-16543 ORNL-3430 14-20 PROPERTY OF CONSERVATION EQUATION USED TO ESTABLISH EXISTENCE OF SOLUTION TO MATRIX RICCATI EQUATION - INVARIANT IMBEDDING RM-3611-ARPA MATRIX ANALYSIS OF COMMUNICATION SYSTEMS -OPTIMIZING DEMODULATION BY ANALOG TECHNIQUE VL-2262-13-0 N63-17897 16-08 COVERINGS - SET THEORY, BOOLEAN ALGEBRA AND MATRIX ANALYSIS SOLUTIONS AFCRL-63-130 N63-18171 16-20 MAGNETIC CORE MATRIX TIME COMPRESSOR /MACOMATIC/ CORRELATION SIGNAL PROCESSING SYSTEM - UNDERWATER ACOUSTIC SIGNALS MATHEMATICAL ANALYSIS OF MATRICES BY LR TRANSFORMATION - FACTORIAL ANALYSIS NYO-10429 N63-19337 18-20 LEAST SQUARES MATRIX ANALYSIS & FORTRAN PROGRAM FOR CRYSTAL STRUCTURES DIFFERENTIAL EQUATION ANALYSIS BY MATRICES
INVOLVING FUNDAMENTAL INEQUALITIES FOR DISCRETE & DISCONTINUOUS FUNCTIONAL EQUATIONS NASA-CR-50675 N63-19638 19-20 MATRIX ANALYSIS - CANONICAL FORM OF TANDEM-COUPLED FOUR-PORTS N63-19972 19-09 NONUNIFORM CONVERGENCE OF INVERSE MATRIX FOR BOUNDARY VALUE PROBLEMS IN WAVE GUIDES N63-20039 19-23 OPTICAL INFRARED SPECTRA OF LOW-MOLECULAR-WEIGHT COMPOUNDS BY MATRIX ISOLATION ANALYSIS IITRI-C6013-1 N63-21168 MATRIX DETERMINATION OF GENERATORS OF SENI-SIMPLE LIE GROUPS N63-23752 24-23 MATTER EXTRATERRESTRIAL MATTER S ROTATING HATTER MULTIPLE AIRBORNE TARGET TRAJECTORY SYSTEM/MATTS/ MAULER MISSILE

MEAN-TIME-BETWEEN-FAILURE APPORTIONMENT IN RELIABILITY CONTROL OF MAULER MISSILE DESIGN

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PLED 9-09

9-23 HT 1-19 4-23

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5-08

MAXIMUM USABLE FREQUENCY IONOSPHERIC PREDICTIONS FOR JA 1963 - MAXIMUM USABLE AND CRIT RRC-876		
ASPECT-SENSITIVE SPREAD AND MU OFF-AZIMUTH HF ARCTIC SIGNALS AFCRL-62-777	LTIPATH DELAY LARGELY ABOVE N63-14220	MUF
IONOSPHERIC PREDICTIONS FOR JU FREQUENCY AND MAXIMUM USABLE F RRC-881		
MAXMELL EQUATION ELECTROMAGNETIC WAVE PROPAGATI PLASMA	ON IN WEAKLY N63-10697	IONIZED 02-24
CONSERVATION LAWS FOR MAGNETOH AFCRL-62-1112		
SOLUTION TO MAXWELL EQUATIONS MEDIA - ELECTROMAGNETISM CU-1-63-AF-2461-EE	FOR GENERAL L N63-18893	
UNSTABLE BOUNDARY CONDITIONS F EVOLUTION - ZERO LOCATION, MAX CAUCHY PROBLEM		
MAXMELLIAN DISTRIBUTION THERMODYNAMIC MODEL OF CONDUCT IN PLASMAS AND SEMICONDUCTORS NASA-TM-X-50236	IVITY DISPERS - MAXWELLIAN N63-20210	ENERGY
MEAN FREE PATH SILICON - MEAN FREE PATH DATA DS-120	N63-20287	20-25
HEAN SQUARE TABLE OF MEAN SQUARE EXPECTATI RATIOS FOR TESTING NULL HYPOTH VARIANCE FOR 2, 3, & 4-MAY CRO NWL-1893	ESES IN ANALY	SIS OF CATION 11-20
MEASURE THEORY MAGNETIC MEASURING SYSTEM ABL/8-22	N63-11048	03-15
PARAMETER OSCILLATION MEASUREM THEORETICAL FOUNDATIONS EUR-221.E	ENTS IN REACT	DRS -
S DENSITY MEASUREMENT S DOSIMETRY S DOMMRANGE MEASUREMENT S DRAG MEASUREMENT S ELECTROMAGNETIC MEASUREMENT S FLOW MEASUREMENT S FREQUENCY MEASUREMENT S FRICTION MEASUREMENT	The same of the sa	A 10 723 Will 10 SH2 40 87 82 GRY 42 A 23M
S HUNIDITY MEASUREMENT S HYPODHERY S IMPEDANCE MEASUREMENT S INTERFERMETRY MOISE MEASUREMENT S OPTICAL MEASUREMENT PHOTOGRAPHIC MEASUREMENT	THE STEP AND A STATE OF THE STA	
S PHOTOMETRY S PRESSURE MEASUREMENT S PROFICENCY MEASUREMENT S RADIATION MEASUREMENT S RADIATION MEASUREMENT S RADIATION MEASUREMENT	HT REMOVED CONTROL OF THE PROPERTY OF THE PROP	Rahii SELP NEOS
S SYNOPTICAL MEASUREMENT	THE PROPERTY OF THE PARTY OF TH	Plan
5 TEMPERATURE MEASUREMENT	MERICOLOGICAL SING NO. AND	

	INDE US MILES	
CF CALIBRATION CF DOWNRANGE ANTIMISSILE MEASUREM CF METER CF TRAJECTORY MEASURING SYSTEM	ENT PROGRAM	
HEASURING APPARATUS		
SOVIET PATENTS ON ACOUSTICAL AN MEASURING INSTRUMENTS JPRS-16134	N63-10077	
MEASURING INSTRUMENT - TORSIONA RECOVERY	L CREEP AND N63-10644	
MAGNETIC FIELD MEASUREMENTS WIT USNRDL-TR-559	H HALL GENERA N63-10658	
SPECTRONETER FOR MEASURING MILL PROPAGATION	IMETRIC WAVE N63-10785	02-15
A GALVANIC SKIN RESPONSE SOLID INSTRUMENT AMRL-TDR-62-117		
THE ABOVE WELL WITH A SERVICE	"全部的支援等效率的经验"。	
TRANSDUCER SYSTEM FOR MEASURING OF WING PANEL AND LEADING EDGE VEHICLE DURING REENTRY	OF DYNA-SOAR	
ATL-D-861 Performed Balancasa	N63-11421	
DEVICE FOR MEASUREMENT OF THOROUR-619	N IN THE BREA N63-11844	04-16
AGITATIONAL PHENOMENA ON POWER LIGHTNING SURGES AND OVERVOLTAG		
They are a series of the serie	N63-11905	04-21
ELECTRODYNAMIC MOVING COIL METE	R FOR MEASUR	ING
EXPLOSION VIBRATIONS TIL/T-5280	N63-12363	06-15
DESIGN STUDY OF SOLAR ENERGY ME	ASUREMENT	
ASD-TN-61-156 CARM MAGENER IS	M63-12751	06-15
MULTIRANGE PRECISION TORQUE MEA	SURING SYSTEM N63-12776	06-15
DEVICE FOR MEASURING ION CURREN SPECTROMETER CIRCUITS - PHOTOMU FTD-TT-62-1529/16264	LTIPLIER DYNG	DDE 08-07
DIRECT MEASUREMENT OF INDEX OF FREQUENCY MEASUREMENTS, TELEMET RAC-1168		08-12
APPLICATION AND CALIBRATION OF	CARRIER FREOL	JENCY
SYSTEMS AND INDUCTIVE MEASURING		IN A
MEASURING DEVICES FOR INTERNITY	PROPERTY AND STREET	
WIND TUNNELS - BALANCES WITH ST		
PRESSURE GAUGES DVL-182	N63-14423	10-15
HEAT TRANSFER RATE MEASUREMENT WIND TUNNEL - THERMOCOUPLE EQUI CONTINUOUS SKIN MODEL AS HEAT M	PPED THIN-	MARK
ALCOHOL STOTEN	N63-15063	
HYPERSONIC TEST STAND MODEL INS SYSTEM - SUPPORT SYSTEM, FORCE,		SSURE &
SURFACE MEASURING SYSTEMS	N63-15613	12-10
STEADY-STATE, STAGNATION-POINT,	HEAT TRANSFE	ER RATE
NEASURING DEVICE NASA-TN-D-1704	N63-15957	13-15
PRACTICAL RANDOM VIBRATION MEAS	WRING TECHNIC N63-16085	
AUTOMATIC MECHANICAL IMPEDANCE INSTRUMENTATION SYSTEM	N63-16087	13-15
AUTOMATIC MASS SPECTROMETER FOR MEASUREMENT OF URANIUM ISOTOPE	RELATIVE	
K-1444 NENES PETERSTEEL GISTON	N63-16453	14-15
EQUIPMENT FOR CONTINUOUS MEASUR	EMENT OF VOID	0

TI

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FRACTION IN BOILING DRGANIC COOLANT - NUCLEAR		RADC-RAU-TH-63-3 N63-22516	23-09
REACTOR COOLANTS NAA-SR-7875 N63-17250	15-13	MEASURING SYSTEMS, DEFINITIONS & CONVERSION	TABLES
STEADY STATE HEAT TRANSFER MEASURING INSTRUMENASA-CR-50626 N63-18868	ENT 18-02	OF PHYSICS DVL-264 N63-22762	23-23
AUTOMATIC SYSTEM FOR MEASURING MICROWAVE PHAS		EFFECT OF ORIENTATION OF BREAK CONTINUOUS O	IRCUITS
SHIFT - PLASMA FLUX MEASUREMENT		FA-M64-4-1 N63-22961	23-17
	19-24	RESTORATION AND EXAMINATION OF COORDINATE MEASURING MACHINE FOR USE WITH ASTRONOMICAL	1001 B
AIR-BREATHING ENGINES AND AERODYNAMIC MEASURI TECHNIQUES WGLR-1/1963 N63-20180	20-15	PHOTOGRAPHY FTD-TT-62-744/16264 N63-23723	24-15
			1374148
MEASURING HIGH TEMPERATURE GAS FLAMES WITH THERMOELECTRIC ELEMENTS - AIR-BREATHING ENGIN N63-20181		MECHANICAL ENGINEERING MECHANICAL ENGINEERING AND AERONAUTICS - BU DME/NAE-1962/3/ N63-10683	OZ-01
PNEUMATIC PYROMETRIC TECHNIQUE - HEASURING	20.15	MECHANICAL ENGINEERING BULLETIN - CENTRIFUG COMPRESSORS	AL
TACOLET.	20-15	DME/NAE-1962/4/ N63-13997	09-01
THREE-VENT PROBE FOR MEASURING FLOW FIELD PRE AND TEMPERATURE - MEASURING APPARATUS		ENGINEERING RESEARCH SUMMARY - STRUCTURAL,	CIVIL.
	20-15	MECHANICAL & ELECTRICAL ENGINEERING AERONAU METALLURGY, AGRICULTURE AND NUCLEAR PHYSICS	A Share
ELECTRONIC POSITION INDICATOR OF ROTATING MEASURING PROBE - MEASURING APPARATUS	-	CN-73194 N63-16103	13-01
	20-15	MECHANICAL ENGINEERING AND AERONAUTICS DME/NAE-1963/1/ N63-18066	16-01
ELECTRICAL PRESSURE RECORDER - MEASURING APPARATUS M63-20185	20-15	AERONAUTICAL, HYDRODYNAMIC, MECHANICAL, AND THERMODYNAMIC ENGINEERING N63-18069	16-01
DATA PROCESSING AT AN ENGINE TEST STATION - MEASURING APPARATUS N63-20186	20-15	ENGINEERING - MECHANICAL DRAWINGS COMBINING MACHINE PART AND GAUGE	PAC MARK
ELECTRONIC TORSION DYNAMOMETER USING ZERO-POI METHOD - MEASURING APPARATUS N63-20187	20-15	SCR-617 N63-19992	19-15
FREQUENCY ANALYZER FOR MEASURING OSCILLATIONS GAS TURBINE CASING N63-20188		MECHANICAL PROPERTY CF BRITTLENESS CF COMPRESSION CF CREEP	USTAT TO STATE OF THE STATE OF
GAS TURBINE CONTROL SYSTEM - MEASURING APPARA N63-20189	TUS 20-15	CF DEFORMATION CF DUCTILITY CF ELASTICITY	SEPTE DE
SIMULATION OF ENGINE THRUST IN WIND TUNNEL MO TESTS - MEASURING APPARATUS N63-20190	DEL 20-15	CF FAILURE CF FATIGUE CF FRATIUF	
GRAVITY MEASURING TECHNIQUES USING PENDULUMS AFCRL-63-665 N63-20241	20-15	CF FRACTURE TOUGHNESS CF HARDNESS CF PERMEABILITY	
MEASUREMENT OF NET DIRECT CURRENT ALONG ION B USING A MAGNETIC AMMETER N63-20509		CF PHOTOELASTICITY CF PLASTICITY CF RUPTURE	COLUMN TAR
VARIABLE TEMPERATURE APPARATUS FOR MEASURING MAGNETIC SUSCEPTIBILITY - GOUY APPARATUS AERE-R-4186 N63-20692	21-23	CF SHEAR CF STRESS CF THERMAL STRESS	
AERODYNAMIC MEASURING TECHNOLOGY - PRESSURE A	ND	MECHANICAL PROPERTIES OF SOLID PROPELLANTS N63-10701	02-26
TEMPERATURE PROBES, VELOCITY MEASUREMENTS, FL CHARACTERISTICS, AND GAS DYNAMICS MGL-5/1962 N63-20803	0W 21-15	MECHANICAL PROPERTIES OF VISCOPLASTIC SOLID SOLIDS	s
	21-15	IER SER. 175, ISSUE 1 N63-10894	02-33
Authoritance of Reportal Programmy Y	21-12	MECHANICAL PROPERTIES OF STRUCTURAL MATERIA UNDER GENERAL STRESS AND RAPID HEATING	
TRANSISTORIZED RIOMETER ABSORPTION MEASURING EQUIPMENT — CALIBRATION, DIGITAL DATA CONVERS AND ANTENNA SYSTEM	ION,	AMC-RR-TR-62-5 N63-11435 EVALUATION OF SPECIAL METAL PROPERTIES	03-33
	22-12	N63-11458	03-18
RESEARCH ON HIGH TEMPERATURE STRAIN GAUGE ELEMENTS		INFRARED TRANSMITTING MATERIALS - DIELECTRI MECHANICAL PROPERTIES N63-11971	C AND 05-25
ARL-63-147 N63-22089	22-13	A CONTRACTOR OF THE PROPERTY O	1077
MEASURING EQUIPMENT AND REPRESENTATION OF THRE		MECHANICAL PROPERTIES OF SOLID PROPELLANTS POLYBUTADIENE AND POLYURETHANE COMPOSITIONS N63-12110	
There is a same of the arranger of the same of the sam	23-15	CONTINUUM MECHANICAL BEHAVIOR OF ENGINEERIN	
STATIC VIBRATION TESTS OF SAILPLANES WITH		MATERIALS N63-12158	05-33

N63-22270 23-04

N63-22456 23-08

MECHANICAL PROPERTIES OF ZIRCONIUM ALLOYS -ZIRCALOY 2 - NIOBIUM OXIDE ALLOY KAPL-2252 N63-15404

DETERMINATION OF MECHANICAL PROPERTIES OF SEVERAL HIGH PERFORMANCE ALLOYS AT ELEVATED TEMPERATURE ASD-TDR-61-529 N63-15431 12-18

STATIC VIBRATION TESTS OF SAILPLANES WITH ELECTRONIC MEASURING APPARATUS

ASSIGNING MEASUREMENTS TO TELEMETRY CHANNELS TO MEET ERROR SPECIFICATIONS

SYNCHRONIZATION OF FIELD INTENSITY MEASURING APPARATUS WITH TEST RADAR

RG-TR-63-13

3-09 BLES 3-23 ITS 1-17

-15

IN 2-01

-01 L. -01 -01 -01

-15

-26

-33

-33 -18 ID 5-25

-26 5-33

-18 LAL

-18

			W42 20222 20 10
MECHANICAL PROPERTIES OF NICK ALLOYS ESRD-13-10		MECHANICAL PROPERTIES OF MATERI	" STEWANDER OFFICE AT
INVESTIGATION OF REINFORCED PI		RETRIEVAL SYSTEM	H63-20788 21-20
FIBERS WADD-TR-60-746, PT. II	N63-15465 12-18	ACID CLEANING EFFECTS ON MECHAN	SA GOARTON NECHANICS
MECHANICAL BEHAVIOR OF SOLID	CHANGE BY SYRESTED AT	17-4 PH STEEL - PROCESS CONTROL	
TO SHALL OSCILLATING DEFORMAT	IONS - COMBUSTION N63-15594 12-26	MECHANICAL PROPERTIES OF AUSTEN	ITIC STEEL STEEL STEEL SO
MECHANICAL PROPERTY OF TANTALI	UM - DUCTILE-BRITTLE	CONDITIONED AT 1200-DEG F	N63-21012 21-13
RANSITION ISD-TR-61-203, PT. II	N63-15715 12-18	PHYSICAL BASIS OF MECHANICAL PR CERAMICS	OPERTIES OF
ICROSTRUCTURE TESTING OF RESI		ASD-TDR-63-605, PT. 17CM	N63-21233 21-18
NERA-TN-71	N63-15739 12-17	MECHANICAL AND PHYSICAL PROPERT WELDED INVAR 36-IRON-NICKEL ALL	
ESTS TO DETERMINE MECHANICAL	PROPERTIES OF	MPTR-2-251-1	N63-21234 21-19
LASTICS 10-62-77	N63-17012 15-19	HAFNIUM CARBIDE - PROPERTIES AP	D FABRICATION N63-21370 22-19
ECHANICAL PROPERTIES AND META HARACTERISTICS OF CHROMIUM AN		TITANIUM ALLOY TECHNOLOGY - AER	OSPACE APPLICATIONS
OMPOSITE ASA-TN-D-1785	N63-17340 15-18	AND MECHANICAL PROPERTIES	BOUNDARY, LAYES MEA
LUORINATED FATTY ACIDS - ELEC	TRICAL AND	STATIC AND DYNAMIC MECHANICAL P BERYLLIUM SHEET	MATERIAL -02-10
ECHANICAL PROPERTIES	N63-17479 15-07	A068	N63-21876 22-18
HYSICAL AND MECHANICAL PROPER ROZEN GROUND - POLAR METEOROL		MECHANICAL PROPERTIES OF ANNEAS ALLOY - WELDABILITY AND FORMAS A073	
	N63-17757 16-12	MECHANICAL PROPERTIES OF FIBRO	S COMPOSITE
ECHANICAL PROPERTIES OF ALLOY ROPERTIES, STRAIN RATE EFFECT ND FRACTURE TESTING		MATERIAL NASA-CR-51169	N63-22055 22-33
ECHANICAL PROPERTIES OF CARBO		MECHANICAL PROPERTY TEST METHOD MATERIALS	S FOR BRITTLE
LOYS - METALLURGY ADC-TR-75-344, PT. VII	N63-18779 18-18	ASD-TOR-63-491	N63-22391 23-17
CHANICAL AND PHYSICAL PROPER	RTIES OF TANTALUM AND	MECHANICAL PROPERTIES OF NICKEL ALLOYS ESRD 13-13	SENVER WEST
ECHANICAL TREATHENT AND ROTOR	KINETIC EFFECT OF	MECHANICS OF CREEP & IMPACT FOI	PLASTICS - STATIC
REACE TENSION OF GLYCOL	N63-19315 18-11	6 DYNAMIC STUDIES ON LINEAR POI HIGH STRAIN RATE BEHAVIOR OF PI AROD-3263-7	ASTIC MATERIALS
ECHANICAL PROPERTIES OF HIGH LASTOMERS - INFLUENCE OF PART	LY FILLED URETHANE	TANTALUM ALLOY SHEET - PROCESS	THE PERSON NAMED IN THE PARTY OF
INTENT ON TENSILE PROPERTY AF		OF MECHANICAL PROPERTIES	N63-23348 24-18
ECTRON MICROSCOPY, X-RAY DIE ECHANICAL TESTING TO DETERMIN	NE SUBSTRUCTURE AND	INCREASING MECHANICAL PROPERTIES BY THERMAL TREATMENT OF METALS	
ECHANICAL PROPERTIES OF REFR 50-TR-61-181, PT. III	N63-19656 19-18	STATE FTD-TT-63-714/162	N63-23390 24-18
UBSTRUCTURE AND MECHANICAL PRESENTERED CUBIC REFRACTORY MET		PHYSICAL AND MECHANICAL PROPER' OVERLAYS. REINFORCEMENTS AND TO	
LECTRON MICROSCOPY OF TUNGST		ASSET GLIDER ER-1115-21	A CONTRACTOR OF THE PROPERTY O
LATIONSHIP OF MECHANICAL PRO	Date windth and Title and Edition	ECHANICAL SYSTEM	
SYSTALS OF BODY CENTERED CUBI ISLOCATION STRUCTURES BY ELEC	IC HETALS AND	ELECTRICAL AND MECHANICAL INTE	
MANITARY MOVE MANITARY AND	N63-19661 19-18	MR-005.09-1401.04	N63-12048 05-08
ECHANICAL PROPERTIES OF HETER S REINFORCED RUBBERS AND PLAS		PLUTONIUM RECYCLE TEST REACTOR EXPERIENCE - MECHANICAL SEAL L	PUMP OPERATING
LLOYS, AND CONCRETE	N63-19897 19-23	HW-76646 YARTY ANDREA TRATEGRA	H63-15675 12-17
ECHANICAL PROPERTIES OF CERAI	HIC SINGLE CRYSTALS - N63-20100 20-19	RELIABILITY THEORY FOR MONELEC MECHANICAL SYSTEMS	
ICKEL, COBALT BASE ALLOYS - I	RENE 41, INCONEL	RAS-TH-63-2 NO. 1 THE STATE OF	AND ECTIVITIES
150-13-7	N63-20123 20-18	SUBSYSTEMS	N63-18613 17-30
IMULATION OF ACOUSTIC EXCITA-	TION BY MECHANICAL AN IMPEDANCE HEAD N63-20311 20-23	SA CELESTIAL MECHANICS SA CLASSICAL MECHANICS	1653+1993F3-05580
	RTIES OF TUNGSTEN	SA CONTINUUM MECHANICS SA ELECTROMECHANICS	APRS-SUSAT

MELTING, EXTRUDING AND MECHANICAL PROPERTIES OF ELECTRON-BEAM-MELTED TUNGSTEN

MEL

SA FLIGHT HECHANICS	NASA-CR-51526 N63-22193 23-16
SA FLUID MECHANICS SA FRACTURE MECHANICS SA ORBITAL MECHANICS SA PHOTOMECHANICS	POLYCHLORVINYL & POLYETHYLENE PLASTIC FILMS FOR MEDICAL TREATMENT OF WOUNDS & BURNS JPRS-212058 23-16
SA QUANTUM MECHANICS	
SA SPACE MECHANICS SA STATISTICAL MECHANICS	MEDIUM SA ISOTROPIC MEDIUM
SA THERMOMECHANICS	WAVE PROPAGATION ON FREE SURFACE OF ELASTIC SOLIDS
CF HYDRODYNAMICS CF KINETICS	MRC-386 N63-15953 13-23
PROTON DAMAGE, ATMOSPHERIC CONTAMINATION, CHEMISTRY, ELECTRICITY, MECHANICS, METALLURGY AND CERAMICS, RADIO, SOLID STATE PHYSICS, AND SOUND N63-12416 06-01	REFLECTION OF IMPULSIVE SPHERICAL WAVE AT PLANE INTERFACE BETWEEN TWO LIQUID ELASTIC MEDIA — SEISMIC WAVES N63-18758 17-12
SPACE PROGRAMS SUMMARY NO. 37-19 - VOL IV. DEC	MELTING CF LIQUEFACTION
1962 TO JAN 1963 - PROPULSION, TELECOMMUNICATIONS, INSTRUMENTS, MECHANICS, GUIDANCE	OF METALLURGY MELTING OF POLYETHYLENES
JPL-SPS-37-19, VOL. IV N63-13582 08-01	TIL/T-5331 N63-10581 02-07
HYDRODYNAMIC SYSTEM FOR STRAINING MECHANICAL TEST SPECIMENS	YIELD POINT RETURN AND MODULUS DEFECT RECOVERY IN ARC-CAST AND POWDER-METALLURGICAL MOLYBDENUM
AMRA-TR-63-21 N63-22922 23-33	ASD-TDR-62-859 N63-12309 05-18
USSR ABSTRACTS ON MECHANICS - HYDRODYNAMICS, Hydrology, Viscous Fluid, Elasticity, Plasticity, Boundary Laver, Heat-Transfer and Diffusion	MELTING, CASTING, AND FABRICATION OF INTERMETALLIC COMPONEDS ASD-TDR-62-1087, PT. 1 N63-13209 07-18
N63-23052 24-23	
MECHANISH SA SERVUMECHANISH	COMPOSITION OF PURE ALUMINUM AND NIOBIUM BY ARC- MELTING USING TUNGSTEN ELECTRODE EUR-132.F M63-13267 07-18
RELIABILITY AMALYSIS OF REDUNDANCY MECHANISMS N63-17283 15-20	DEVELOPMENT OF REFRACTORY FABRICS - GLASS MELTING FURNACES, CARDING OF BRITTLE CERAMIC FIBERS
MEDICAL ELECTRONICS	N63-13289 07-17
TECHNIQUES OF PHYSIOLOGICAL MONITORING AMRL-TDR-62-98/1/ N63-10152 01-16	FLOW AND FRACTURE OF INDUCTION ZONE-REFINED
ENDORADIOSONDES - STATE OF THE ART SURVEY ANRL-TOR-62-122 N63-13937 09-16	TUNESTEN Q-81973-2 N63-13529 08-17
TELEMETRY DEVICES FOR DENTAL RESEARCH SAM-TDR-63-36 N63-22980 23-16	CORROSION RESISTANCE OF STRUCTURAL METALS TO MOLTEN LITHIUM HYDRIDE IN AIR, ARGON AND HYDROGEN ER-4774 08-18
	and the first of the second se
MEDICAL SERVICE CF FIRST AID MEDICINE /GEN/	METALLURGICAL RESEARCH - RARE EARTH, HAFNIUM, THORIUM, AND REFRACTORY ALLOVS - SOLID-STATE DIFFUSION BONDING AND MELTING RESEARCH
SA AEROSPACE MEDICINE	USBM-U-1001 N63-14294 10-18
SA BIOMEDICINE SA CLINICAL MEDICINE	ARC-CASTING MOLYBDENUM- AND TUNGSTEN-BASE ALLOY N63-14486 10-18
SA RADIATION MEDICINE	MALES MEDITAL STATE OF THE PARTY OF THE PART
VITAL FUNCTION RESTORATION FROM CLINICAL DEATH CAUSED BY MECHANICAL ASPHYXIA	OF H-11 STEEL AT HIGH STRENGTH LEVELS
JPRS-17162 N63-11839 04-16	ASD-TR-7-678/111/ N63-15177 11-17
INTERNATIONAL MEETINGS OM SCIENCE, TECHNOLOGY, AGRICULTURE, AND MEDICINE - 1963 TO 1966 N63-12343 05-01	EFFECTS OF MELTING PROCESS ON TRANSVERSE DUCTILITY OF H-11 STEEL AT HIGH STRENGTH LEVELS ASD-TR-7-678/11/ N63-15255 12-18
PHYSICS, ACCELERATORS, CHEMISTRY, BIOLOGY,	CALCULATED RESULTS FOR TRANSIENT HEATING AND
MEDICINE - BNL REPORT BNL-742/AS-16/ N63-12924 07-01	MELTING OF GLASS SHIELD AT STAGNATION POINT OF REENTERING ICBM .
BIOCHEMISTRY - RADIOBIOLOGY - MEDICINE -	NASA-TN-D-1643 N63-15347 12-30
BIOPHYSICS - NUCLEAR RADIATION - PHARMACOLOGY -	DESIGN AND PERFORMANCE OF LEVITATION MELTING COILS
UCLA 510 N63-12946 07-16	WITH EMPHASIS ON HEAT EFFECT Y-1413 N63-15517 12-18
EXPERIMENTS ON MAN - LEGAL AND MEDICAL PROBLEMS	HIGH TEMPERATURE ALLOY RECLAMATION FROM MELTING OF
INVOLVED RAE-TRANS-1017 N63-13130 07-01	SCRAP METAL 8M-RI-6230 N63-15723 12-18
FRENCH MEDICAL-PHYSIOLOGICAL LABORATORY N63-15037 11-16	RARE EARTH, HAFNIUM, THORIUM REFRACTORY ALLOYS AND MELTING RESEARCH CONSIDERATIONS - PROGRESS REPORT USBH-U-1031 N63-15730 12-18
SCIENCE IN ARCTIC OCEAN BASIN - BOTANY, ZOOLOGY, MICROBIOLOGY, PHYSIOLOGY AND MEDICINE,	VACUUM ARC MELTING OF TUNGSTEN BASE NIDBIUM
AND ECOLOGY NAS-NRC-1086 M63-16837 14-16	ALLOY - EFFECT OF MELTING RATE ON INGOT CHARACTERISTICS
ELECTRONICS AND ELECTRONIC EQUIPMENT IN MEDICINE	ASD-TDR-63-296 N63-15881 13-18
JPRS-20968 N63-20744 21-16	
BIOLOGICAL & MEDICAL FACTORS OF SPACE FLIGHT JPRS-20943 N63-21186 21-16	ASD-TDR-62-534 N63-16045 13-18
0. NO 20743 NO 721-16	MELTING. EXTRUDING AND MECHANICAL PROPERTIES OF

MEDICINE & BIOLOGY - METABOLIC STUDIES

3-16 IR 3-16

LIDS 3-23 E 7-12

2-07 IN 5-18 LLIC 7-18 C-7-18 ING 7-17

8-17

GEN 8-18

0-18 Y 0-18 ITY 1-17 LITY 2-18

2-30 DILS 2-18 G OF 2-18 AND DRT 2-18

3-18 :A 3-18

NASA-TN-D-1707	DIFFUSION OF HYDROGEN AND OTHER LIGHT GASES THROUGH MEMBRAMES, POROUS MEDIA, AND THIN PLATES -
DEVELOPMENT AND STATISTICAL ANALYSIS EVALUATION OF MELTING AND TRANSVERSE PROPERTIES OF HIGH STRENGTH	BIBLIOGRAPHY
H-11 TYPE STEEL ASD-TR-7-678/IV/ N63-16901 14-10	
MELTING PRESSURE EQUATION FOR HYDROGENS R-271 M63-17135 15-11	PIBAL-672 N63-23428 24-33
ELECTRON BEAM MELTING OF URANIUM FOR REMOVAL OF CONTAMINANTS	SILVER MEMBRANES FOR FUEL CELL ELECTRODES N63-23551 24-09
NLCO-881 N63-17386 15-0	MEMBRANE THEORY
CONSUMABLE-ELECTRODE ARC MELTING OF TUNGSTEN BASE ALLOYS	RESPONSE OF SEMI-INFINITE, CYLINDRICAL,
DHIC-MEMO-168 N63-18631 17-1	8 MEMBRANE THEORY ASSUMPTIONS CU-2-63-ONR-266/34/-CE N63-18881 18-33
CONSUMABLE ELECTRODE VACUUM ARC MELTING AND CASTING OF COPPER	MEMORY SATERONE MAINEY & DO N. HANNES AND VINCENTAL TOP
BM-RI-6254 N63-19236 18-1	8 SA PLASTIC MEMORY CF BEHAVIOR
HIGH TEMPERATURE CREEP RUPTURE CHARACTERISTICS OF UNALLOYED HOLYBDENUM FORGINGS PRODUCED FROM ARC-	CF LEARNING CF TRAINING ADAPTIVE MAN-MACHINE NONARITHMETICAL INFORMATION
CAST AND PRESSED-AND-SINTERED MATERIALS N63-19612 19-3	
RARE EARTH, HAFNIUM, THORIUM, & REFRACTORY HIGH-	
TEMPERATURE ALLOYS, SOLID STATE DIFFUSION BONDING AND MELTING PROCESSES USBM-U-1057 N63-19613 19-1	PART II, DESIGN, MEMORY, CIRCUITS
	A COLOR OF THE PROPERTY OF THE
PROPERTIES OF ARC-MELTED GRAVITY CAST TITANIUM CARBON ALLOY SSD-TOR-63-216 M63-23781 24-1	REGISTERS, MEMORY DEVICES, AND STORAGE DEVICES
MELTING POINT MELTING POINT MEASUREMENTS FOR THE TETRAMETHYL— AMMONIUM NITRATE—NITRIC ACID SYSTEM	THE TREE AS A STRATAGEN FOR INFORMATION HANDLING - COMPUTER MEMORY ORGANIZATION N63-12142 05-20
N63-11496 03-0	BINARY COMPUTER RECEIVING RHYTHMIC INPUT FROM
UPPER AND LOWER BOUNDS IN PROBLEMS OF MELTING OR SOLIDIFYING SLABS CU-23-62-0NR-266/20/-CE N63-14520 10-1	CHRONOMETER N63-12684 06-09 CIRCUITS AND LOGIC FOR DESIGN OF DIGITAL
MELTING PROPERTIES OF SILVER NITRATE TO 10,000 AT	DIFFERENTIAL ANALYZER FOR TESTING MEMORY DEVICES
PRESSURE NAA-SR-8422 N63-19741 19-0	TO CIRCUITS ADDING PULSE-HEIGHT AND DIGITAL DATA ON
MEMBRANE DISCLASSING A THE STATE OF THE STAT	HW-71044 (AZM3CM3) SMITT HE-MOM DE N63-15674 (12-09
CF DIAPHRAGM MEMBRANE APPROACH TO BENDING INSTABILITY OF	TRANSFER OF TRAINING - LEARNING BEHAVIOR - EFFECT
PRESSURIZED CYLINDRICAL SHELLS N63-10824 02-3	OF TIME DELAY AND TASK SIMILARITY - MEMORY AMRL-TDR-63-22 N63-16339 13-14
OPTICAL SCANNING USING ELECTRICALLY-MODULATED MEMBRANE MIRRORS - APPARATUS AND EXPERIMENTAL	
RESULTS N63-12808 06-0 FINITE DEFORMATION OF PRESTRESSED ELASTIC MEMBRAN	N63-17368 15-09
SUDAER-141 N63-13050 07-3	
ORGANIC ION-EXCHANGE MEMBRANES FOR HYDROGEN-OXYGE FUEL CELLS N63-14124 09-0	16
INORGANIC ION EXCHANGE MEMBRANES FOR HYDROGEN- OXYGEN FUEL CELLS N63-14125 09-0	
ORGANIC GEL ION EXCHANGE MEMBRANE HYDROGEN-OXYGEN	DETERMINATION OF BEHAVIOR OF AN AUTOMATON -
FUEL CELL N63-14131 09-0	MIT-TR-411 N63-18004 16-09
STRESS DISTRIBUTION AROUND HOLES IN SPHERICAL SHELL MEMBRANE UNDER INTERNAL PRESSURE RE-163 N63-17671 16-3	
DEFLECTION AND STRESS CALCULATIONS OF MEMBRANE	RESELS-9 RES
DEFLECTED BY MOVING MASS NASA-TN-D-1928 N63-18132 16-3	MATHEMATICAL MODEL FOR ASSOCIATIVE MEMORY - USE
WATER RECOVERY FROM CELLULOSE ACETATE MEMBRANES	OF ASSOCIATIVE ADDRESSING AND DISTRIBUTED STORAGE SCR-641 M63-19185 18-20
AND URINE NASA-CR-50642 N63-19941 19-0	7 MEMORY STORAGE UNIT
OPTICAL TRACKING USING HEMBRANE-TYPE OBJECTIVE	CIRCUIT WIRING FOR NUMBER STORAGE IN 18H 047 TAPE- TO-CARD CONVERTER - MEMORY STORAGE UNIT
10-AI "25871-COM 1003-170-W	S STOREST AS THE STORE S
AUTOMATIC MEASUREMENT OF FLOW VELOCITY VECTOR WIT BERYLLIUM-BRONZE SIPHON MEMBRANE	INVESTIGATION
M63-20810 V 21-1	15 ARL/RE-103 1440 444 444 444 463-14906 19-08

DESIGN OF NONDESTRUCTIVE MEMORY COMPATIBLE WITH PARAMETRON - CONTROL LOGIC N63-21866 22-09	SPACE PROBES OF INCREASING SOPHISTICATION - MERCURY, VENUS, AND MARS DATA REVIEW M63-23449 24-29
MENZEL-EVANS SCHEME SIZE AND POSITION OF SOLAR PROMINENCES AND THEIR CLASSIFICATION BY MENZEL-EVANS SCHEME	MERCURY CAPSULE MERCURY PROJECT - HISTORY, R&D, PROBLEMS,
AFCRL-62-1062 N63-12122 05-28	SPACECRAFT, IMPACT, RECOVERY N63-10244 01-32
MERCAPTOETHYLAMINE ACUTE RADIATION SICKNESS - PATHOMORPHOLOGICAL CHANGES IN THE EYE - PROTECTIVE EFFECT OF BETA	MICROSTRUCTURAL CHANGES PRODUCED IN RENE 41 ALLOY HEAT SHINGLES ON MERCURY CAPSULE N63-12056 05-18
MERCAPTOETHYLAMINE JPRS-17222 N63-12011 05-16	CONTAMINANTS IN ATMOSPHERE OF MERCURY SPACECRAFT N63-12418 06-16
MERCURY /METAL/ CAVITATION SCALE AND THERMODYNAMIC EFFECTS IN	ANALYSIS OF THE ATMOSPHERE IN MERCURY SPACE
STATIONARY AND ROTATING COMPONENTS WITH WATER AND MERCURY N63-10530 01-11	CAPSULE NRL-5816 N63-13341 08-07
FABRICATION AND ASSEMBLY OF A TEFLON DROPPING- MERCURY ELECTRODE	MERCURY SPACECRAFT PRELAUNCH TESTING N63-17518 16-32
ORNL-3344 N63-10867 02-17	MERCURY CAPSULE CHECKOUT AND PRELAUNCH TESTING
CALCULATED PERFORMANCE OF A MERCURY-COMPRESSOR- JET POWERED AIRCRAFT USING NUCLEAR REACTOR AS	N63-17519 16-32
ENERGY SOURCE NACA-RM-E51F14 N63-12538 06-27	CHECKOUT OF MERCURY CAPSULE AND ATLAS ROCKET FOR FRIENDSHIP 7 SPACECRAFT FLIGHT
LOCAL PARAMETERS IN COCURRENT MERCURY-NITROGEN	N63-17660 16-31
TNO-PHASE FLOW ANL-6625 N63-14562 10-11	WIND TUNNEL INVESTIGATION OF STATIC AERODYNAMIC CHARACTERISTICS OF MERCURY CAPSULE MODEL AT
POTASSIUM & MERCURY BOILING FOR HIGH TEMPERATURE	TRANSONIC SPEEDS NASA-TM-X-292 N63-17988 16-02
HEAT TRANSFER -LIQUID METAL COOLED REACTORS N63-15008 11-13	AERODYNAMIC CHARACTERISTICS OF MERCURY CAPSULE AT SUPERSONIC SPEED
HIGH-TEMPERATURE LIQUID METAL HEAT TRANSFER -	NASA-TM-X-291 N63-17990 16-02
APPARATUS FOR DETERMINING HEAT TRANSFER OF POOL AND FORCED CONVECTION BOILINGS OF MERCURY No3-15015 11-13	PRESSURE DISTRIBUTION ON MODELS OF PROJECT MERCURY CAPSULE AT MACH 1.60 TO 6.01
HIGH TEMPERATURE LIQUID METAL HEAT TRANSFER -	NASA-TM-X-336 N63-17994 16-30
POTASSIUM-MERCURY AMALGAM HEAT TRANSFER AND TWO- PHASE FLOW N63-15016 11-13	DYNAMIC STABILITY OF PROJECT MERCURY TEST CAPSULE DURING REENTY - DISPERSION AT TRANSOMIC SPEED FOR PARACHUTE DEPLOYMENT
ELECTRON BOMBARDMENT MERCURY ION SOURCE FOR PROPULSION	NASA-TM-X-350 N63-17995 16-30
ARS PAPER-2381-62 N63-15087 11-27	STATIC STABILITY EVALUATION OF MERCURY CAPSULE IN MIND TUNNEL AT TRANSONIC, SUPERSONIC AND
MERCURY WETTING AND NON-WETTING CONDENSATION ER-5214 N63-15388 12-11	HYPERSONIC SPEED NASA-TM-X-433 N63-18038 16-30
MERCURY CORROSION LOOP TESTING PROGRAM - BOILERS	MERCURY CAPSULE AT SUBSONIC SPEED WITH AND WITHOUT
AND CONDENSERS NASA-CR-50341 N63-17220 15-17	DROGUE PARACHUTE - DYNAMIC MODEL TESTS NASA-TH-X-459 N63-18040 16-30
MERCURY CORROSION LOOP TESTING PROGRAM ~ BOILERS AND CONDENSERS	VISUAL SUBSYSTEM OF MERCURY CAPSULE - VISION IN
NASA-CR-50342 N63-17223 15-17	ORBIT - VISUAL PERCEPTION PROBLEM N63-19247 18-14
EMBRITTLEMENT & CORROSION OF ALUMINUM ALLOYS IN	STATIC & DYNAMIC STABILITY OF MERCURY REENTRY
PRESENCE OF MERCURY & CESTUM ARF-R3501-B4T N63-20372 20-18	CAPSULE SCALE MODELS AT MACH 3 & 9.5 NASA-TM-X-373 N63-20535 20-32
	Mark the state of
CRYSTAL STRUCTURE OF ALPHA MERCURY - CRYSTALLOGRAPHIC ANGLES N63-20965 21-25	MERCURY CAPSULE HEAT SHIELD - HEAT TRANSFER AND PRESSURE COEFFICIENTS AT SUPERSONIC SPEEDS HASA-TH-X-522 . 20-32
LIQUID METAL EMBRITTLEMENT OF ZINC MONOCRYSTALS BY MERCURY	STATIC AERODYNAMIC CHARACTERISTICS OF MODIFIED
RIAS-TR-62-19 N63-21812 22-18	MERCURY ESCAPE AND EXIT CAPSULE CONFIGURATIONS AT
ELECTROLYTE MATRIX COMBINATIONS FOR MERCURY- POTASSIUM FUEL CELL	NASA-TM-X-547 N63-20539 20-02
NASA-CR-51566 N63-22584 23-26	EFFECTS OF TRANSVERSE BARYCENTER DISPLACEMENT, CONICAL AFTERBODY, CURVED FRONT FACE ON MERCURY
ELECTRICALLY DRIVEN CYLINDRICAL MERCURY RING FLYWHEEL FOR GYROSCOPE SUSPENSION	CAPSULE SUPERSONIC AERODYNAMIC CHARACTERISTICS NASA-TH-X-569 N63-20540 20-03
FTD-TT-63-602/162 N63-23386 24-15	MISSILE RANGE AN/FPS-16 RADAR PERFORMANCE IN
SORPTION OF SULFUR, PHOSPHORUS, AND MERCURY BY 2EOLITES N63-23425 24-19	TRACKING PROJECT MERCURY CAPSULE N63-21465 22-08
MERCURY /PLANET/ PHYSICS OF PLANETS - INTERNAL STRUCTURE, SURFACES, AND ATMOSPHERES - MERCURY, VENUS, MARS, JUPITER,	MERCURY COMPOUND LOW-TEMPERATURE HEAT CAPACITY AND ENTROPY AT 298.15-DEG K OF RED MERCURIC SULFIDE
AND SATURN AFCRL-63-457 N63-16280 13-23	BM-RI-6001 N63-17885 16-07

RATIONAL PROGRAM FOR PLANETARY EXPLORATION USING

MERCURY PROJECT - ROLE OF ASTRONAUT IN SPACE

1-32 LOY 5-18 FT 6-16

8-07 6-32 6-32 OR 6-31 C

6-02 CURY 6-30 ULE FOR 5-30 IN 5-30 HOUT 6-30

-32

-32 AT

-03

-08

-07

N63-10243 MERCURY PROJECT - HISTORY, RED. PROBLEMS,	01-14	MANNED SPACECRAFT LAUNCH VEHICLE SUI MERCURY-REDSTONE PROJECT - JUPITER C SCIENCE N63	TABILITY -	NOTE:
SPACECRAFT, IMPACT, RECOVERY N63-10244	01-32	EFFECT OF REFRACTION ON SETTING SUN	AS SEEN F	ROM
RELIABILITY MODEL AND ANALYSIS FOR PROJECT MERCURY 3-DRBIT MANNED AND UNMANMED MISSION NASA-TN-D-1558 N63-10536	01-32	SPACE IN THEORY AND OBSERVATION - MA MISSIONS NASA-TN-D-1721 N63		-7 13-12
MANNED SPACE FLIGHT - APOLLO AND MERCURY PRO N63-10553	OJECTS 01-32	LUNAR PROGRAM - MERCURY, GEMINI, AND PROJECTS OF MANNED SPACE FLIGHT PROG	GRAN	DOMESTICA DOMEST
MERCURY PROJECT - PROGRAMMING STANDARDS MC-102 M63-10957	02-20	NASA-EP-7 N63 REPORT OF MAJOR GORDON COOPER ON SPAFAITH 7 /MERCURY PROJECT/ N63	ACE FLIGHT	IN 14-29
HERCURY PROJECT - BERMUDA MONITOR PROGRAMS MC-104 N63-10958	02-08	SPACE EXPLORATION - METEOROLOGICAL	AND COM YOU	SAYOL
MERCURY PROJECT - BERMUDA PROCESSOR PROGRAMS MC-106 N63-10959	02-08	PULSES THE WILLIAM TATTIVE MITTERS DESCRIPTION	3-17252	15-01
MERCURY PROJECT - POSTFLIGHT REPORTER PROGRA MC-110 N63-10960	NM 02-32		3-17403	15-32
CONFERENCE ON PEACEFUL USE OF SPACE, 1962 - MERCURY, APOLLO, GEMINI PROJECTS, METEOROLOG	ICAL S	EXPERIENCE WITH MERCURY PROJECT - MA	ANNED SPAC 3-17404	
COMMUNICATION SATELLITES NASA-SP-8 N63-11137	03-01	SAFETY DEVICES FOR MERCURY PROJECT - FLIGHT No.		PACE 15-30
MERCURY, GEMINI AND APOLLO PROJECTS N63-11145	03-32	PREPARATIONS FOR MA-9 MANNED SPACEFI PROJECT NEWS RELEASE N6:		RCURY 16-32
MERCURY-ATLAS SPACE FLIGHT - ASTRONAUT REPOR	NT 03-32	MA-9 MISSION - FLIGHT OF FAITH 7 SPANS	ACECRAFT 3-18852	18-14
REAL TIME APPLICATIONS OF CELESTIAL MECHANIC MERCURY PROJECT AMS PAPER-2623-62 N63-11257	S IN 03-29	SPACECRAFT DESIGN AND OPERATIONS AS MERCURY PROJECT ATA-PAPER-63073 N6:	OSRAP BY TO	20-32
EFFECT OF MA-7 SPACECRAFT ACCELERATIONS AND REENTRY DECELERATIONS ON THE LIQUID-VAPOR	16 A FO N 10 10 10 10 10 10 10 10 10 10 10 10 10	MISSILE RANGE AN/FPS-16 RADAR PERFORMERS	RHANCE IN	WEST STATE
INTERFACE IN A BAFFLED TANK NASA-TN-D-1577 N63-11618	04-26	SELWS-E-101 N6: CHRONOLOGY OF PROJECT MERCURY	3-21465	22-08
COUNTDOWN AND PROCEDURES FOR MERCURY PROJECT ATLAS-5 FLIGHT ARL-TDR-62-17 N63-11628			ने वस् वस्त्र के से से अधिक	22-32
SPACECRAFT AND LAUNCH-VEHICLE PERFORMANCE, P		ORBITAL FLIGHT		22-01
OPERATIONS, AEROMEDICAL ANALYSIS, PILOT PERFORMANCE, PILOTS FLIGHT REPORT NASA-SP-12 N63-11990	05-32	REVIEW OF MERCURY PROJECT N6:	3-21952	22-32
SPACECRAFT AND LAUNCH VEHICLE PERFORMANCE N63-11991	05-32	NASA SUPPORT FOR MERCURY PROJECT N6:	3-21953	22-01
MISSION OPERATIONS - MA-8 MISSION - PRELAUNCE	H. William	SPACECRAFT SYSTEMS DEVELOPMENT AND I MERCURY PROJECT N6	PERFORMANC 3-21954	
AEROMEDICAL ANALYSIS - MA-8 MISSION		MERCURY-REDSTONE LAUNCH VEHICLE DEVI		
N63-11993 PILOT PERFORMANCE - MA-8 MISSION	05-16	MERCURY-ATLAS LAUNCH VEHICLE DEVELOPERFORMANCE	PMENT AND 3-21956	22-32
N63-11994 PILOTS FLIGHT REPORT - MA-8 MISSION	05-32	RELIABILITY AND FLIGHT SAFETY IN ME	RCURY PROJ	ECT 22-04
N63-11995 NASA MANNED SPACE FLIGHT PROGRAMS - MERCURY	05-32 DNE-	TRAJECTORY ANALYSIS FOR MERCURY PRO-	JECT - MIS	
DAY MISSIONS, GEMINI, AND APOLLO	06-32	TELECOMMUNICATIONS FOR MERCURY PROJ	ECTIO VIN-	NUCLEO DF 800
GROUND SUPPORT OF NASA SPACE PROGRAMS' - TRAC AND COMMAND TECHNIQUES - MINITRACK, DEEP SPA STATIONS, MERCURY NETWORK, DATA PROCESSING O	CE CENTERS	OPERATIONAL SUPPORT FROM DEPARTMENT MERCURY PROJECT	3-21960	E FOR
M63-12839 ULTRAVIOLET OBJECTIVE SPECTROGRAPH FOR HAND	(4)2094 43 (4)2094 43	ASTRONAUT TRAINING FOR HERCURY PROJE	ECT 445	22-14
DPERATION BY MERGURY ASTRONAUT BEC-4674 N63-13640	08-15	AEROMEDICAL PREPARATIONS FOR MERCUR'	Y PROJECT	22-14
ANALYSIS OF MA-7 AND MA-8 FLIGHT RECOVERY ZO SPLASH POINT, RETROPOCKET YAM ANGLE AND ZONE UNCERTAINTY PMR-TM-63-3 N63-14958	OF	BIOMEDICAL, PHYSICAL SCIENCE, AND E EXPERIMENTS INITIATED BY MERCURY PRI NO.	NGINEERING OJECT 3-21963	22-29
MISSILE SYSTEM SAFETY - AN EVALUATION OF SYSTEST DATA /ATLAS MA-3 ENGINE SYSTEM/ R-5135 N63-15902	13-14	FLIGHT DATA PROCESSING FOR MERCURY NO.		AUTREY
103-13702	ALL AND			

SPACECRAFT PREFLIGHT PREPARATION FOR MERCURY	LNF-63/6 N63-15384 12-24
PROJECT N63-21965 22-0 FLIGHT CONTROL OPERATIONS FOR MERCURY PROJECT	HEAVY MESONS AND EXCITED BARYONS - MASS SPECTRA, QUANTUM NUMBERS, LIFE TIMES AND DECAY MODES
N63-21966 22-0 RECOVERY OPERATION FOR MERCURY PROJECT	8 SLAC-13 N63-15810 13-23 PHI MESON AND UNITARY SYMMETRY MODEL
N63-21967 22-1	
ASTRONAUT PERFORMANCE DURING MERCURY PROJECT N63-21968 22-1	ASSOCIATION OF MESON INTENSITY VARIATIONS IN COSMIC RAYS AT HIGH LATITUDE WITH SOLAR ACTIVITY AND GEOMAGNETIC DISTURBANCES
PHYSIOLOGIC MEASUREMENTS AND MEDICAL OBSERVATIONS OF ASTRONAUT - MERCURY PROJECT	
N63-21969 22-1	POLARIZATION OF MU MESONS, PION BEAM INTERACTIONS,
SATELLITE OBSERVATIONS OF SPACE PHENOMENA - MERCURY PROJECT N63-21970 22-2	9 UCRL-10613 N63-19223 18-23
ASTRONAUTS SUMMARY FLIGHT REPORT OF MERCURY PROJECT N63-21971 22-0	
OBSERVED FLIGHT PERFORMANCES IN MERCURY PROJECT	LNF-63/21 N63-19281 18-23
N63-23204 24-3	PARTICLE INTERACTIONS, NUCLEAR PHYSICS
MERIDIONAL FLOW WIND CIRCULATION IN STRATOSPHERE	NYO-10268 N63-19290 18-23
N63-17787 16-2	1 KNOCK-ON ELECTRONS OF FAST MU-MESON N63-19989 19-23
HEMISPHERICAL CORRELATIONS OF VERTICAL AND MERIDIONAL WIND COMPONENTS N63-19556 19-2	POLARIZATIONS OF STRANGE PARTICLE PRODUCTION BY
MERIDIONAL EDDY TRANSPORT OF KINETIC ENERGY AT 500-MB N63-19557 19-2	MESONS UCRL-10838 N63-20712 21-23
MEROMORPHIC FUNCTION	SECTOR-FOCUSED CYCLOTRONS - OPERATION, EXTRACTION, HIGH CURRENT MACHINES, ORBIT THEORY, AND MESON
MATHEMATICS	CERN-63-19 N63-21125 21-23
AROD-1517-51 N63-14615 10-20	NEUTRON ENERGY SPECTRA FROM NUCLEI EXCITED BY MU-
MESON SA ETA-MESON	MESON CAPTURE UCRL-10516 N63-22831 23-23
CF CHARGED PARTICLE CF ELEMENTARY PARTICLE STANDARD ERRORS OF COSMIC RAY DATA CORRECTED FOR	RESONANT STATES IN SCATTERING OF K MESONS & HYPERONS N63-23461 24-23
ATMOSPHERIC EFFECTS AFCRL-62-651 N63-10104 01-2	MESON-NUCLEON INTERACTION NUCLEAR AND GENERAL PHYSICS & MASS SPECTROSCOPY -
COSMIC RAY INTENSITY VARIATIONS DURING 1961 AFCRL-62-675 N63-10107 01-20	MESON-NUCLEON INTERACTION MESON-NUCLEON INTERACTION
QUANTIZATION OF SELF-COUPLED BOSON FIELD	ANL-6666 N63-13652 08-23
AFOSR-TN-2941 N63-11637 04-2	ON ALUMINUM SPACECRAFT SHIELDING
NUCLEON-MESON CASCADE CALCULATIONS - TRANSVERSE SHIELDING FOR HIGH ENERGY ELECTRON ACCELERATOR INCLUDING COMPUTER CODE FOR NUMERICAL SOLUTION	N63-15148 11-32 MESOSPHERE
ORNL-3289 N63-11730 04-2	COMPOSITION OF MESOSPHERE
NUCLEAR REACTIONS INDUCED BY PIONS AND PROTONS — EXCITATION FUNCTION EVIDENCE FOR ELEMENTARY PARTICLE COLLESIONS IN NUCLEAR MATTER	RM-3585-PR N63-15896 13-12 WATER VAPOR MEASUREMENT IN STRATOSPHERE -
UCRL-10531 N63-12422 06-2	
METHOD FOR DISTINGUISHING HIGH ENERGY PROTONS AND MESONS HAVING SAME IMPULSE, BASED ON NIP	MESOPHERIC WIND MEASUREMENT FROM ROCKET SOUNDING
JUNCTION CHARACTERISTICS IN SILICON DIODES N63-12672 06-09	WITH ROBIN BALLOON AFCRL-63-836 N63-22469 23-21
NUCLEON-MESON CASCADE CALCULATIONS AND SHIELDING OF 800-MEV PROTON BEAM	CIRCULATION DISTURBANCES IN MESOSPHERE ASSOCIATED WITH SUDDEN WARNING OF 1963 METEOROLOGICAL
ORNL-3406 N63-12990 07-23	ERDA-76 N63-23566 24-09
NUCLEON-MESON CASCADE CALCULATIONS - PART 2, TRANSVERSE SHIELDING FOR 45-GEV ELECTRON ACCELERATOR	METABOLISM CF DEMYDRATION
ORNL-3365 N63-13250 07-23	CF PHOTOSYNTHESIS
K-GENERATION BY RHO-MESON EXCHANGE - NUCLEAR RESONANCE N63-14337 10-23	CF PHYSIOLOGY
RADIATION HAZARDS OF PI AND MU MESONS - BIOLOGICAL EFFECTS AND SPACECRAFT SHIELDING	
N63-15159 11-10	MANMALIAN METABOLISM AND RADIOBIOLOGY LAMS-2780 N63-10589 02-16
VACUUM POLARIZATION AND RESONANCE CONTRIBUTIONS OF VIRTUAL VECTOR MESONS IN HIGH ENERGY ELECTRON- POSITRON COLLISIONS	CONTINUOUS PROPAGATION OF MICROORGANISMS N63-11000. 03-16

-24

-23

-23

Y -12

NS,

-23

Y

-23

-23

-23 DN.

-23

3-

-23

-23

-23

-32

-12

-21 ; -21 D -09

16 16

16

4

, -23

ENDOGENOUS METABOLISM IN ALGAE	N63-11193	03-16	ENDOGENOUS METABOLISM IN CHLORELLA PYREMOIDOS N63-21452	22-16
METABOLIC, ECOLOGIC, AND GENETI TERRESTRIAL MICROORGANISMS UNDE	C PROCESSES	IN	ENDOGENOUS NETABOLIC PROCESSES IN ALGAE N63-21623	
PLANETARY ENVIRONMENTS	N63-11302	03-29	AUXIN TRANSPORT IN PLANT PHYSIOLOGY & METABOL	ISH -
METABOLISM OF RADIOISOTOPES OF ALKALINE EARTHS, AND HEAVY META	LS	all and	ENZYMATIC PROCESS OF EPINASTY	22-16
AEC-TR-5236 HETABOLISM OF FISSION PRODUCTS	N63-11824 - PHYSICO-CH	04-16 EMICAL	METABOLIC CHANGES IN HUMANS FOLLOWING SEVERE JPRS-21235 N63-22106	
STATE & METABOLIC PATH OF RADIO AEC-TR-5242	CERIUM SOLUT	IONS	METORY METAL	NEFRA
EFFECT OF DECREASED BAROMETRIC RESPIRATORY OXYGEN REQUIREMENTS		NG	EFFECT OF X-RAY IRRADIATION ON RIBOFLAVIN	SHELLA
HODES IN MAN SAM-TDR-62-94	N63-12462	06-16	METABOLISM IN RABBITS N63-22368	SCHNO
POSSIBLE EFFECTS OF WEIGHTLESSN METABOLISM IN MAN - SKELETAL RA			NUCLEIN METABOLISM IN REGENERATION OF SKELETA Muscles by Quantitative autoradiography JPRS-20997	23-16
HYPERCALCURIA UR-622	N63-14497	10-16	METABOLIC EFFECTS OF METHIONINE TOXICITY IN R ALTERATIONS IN THE LIVER & INCREASED URINARY	
BIBLIOGRAPHY ON COMPOSITION OF WASTE PRODUCTS	HUMAN METABO	LIC	EXCRETION OF AMINO ACIDS AAL-TDR-63-5 N63-22715	THEE
S8-62-56	N63-16421	14-16	PROTEINS AND NUTRITION - HETABOLIC PATHWAYS F	CMIL
ALTERATION OF PROTEIN METABOLIS COLD EXPOSURE	H IN RATS DU	RING	PROTEINS & AMINO ACIDS	20007
AAL-TDR-62-60	N63-17095	15-16	CARBOHYDRATE METABOLISH IN MONKEYS WITH ACUTE	DANAV
EFFECT OF PROTEIN INTAKE AND CO SELECTED LIVER ENZYMES ASSOCIAT METABOLISM IN RATS			RADIATION SICKNESS AFTER X-RAY IRRADIATION FTD-TT-63-641/16264 R63-23187	24-16
	N63-17096		INTERACTION OF ACTIVE SODIUM & ACTIVE GLUCOSE TRANSPORT IN ISOLATED RABBIT INTESTINE - METABOLISM N63-23521	24-16
IMBALANCE IN RATS AAL-TDR-62-62	N63-17097		METABOLISM OF LITTLE POCKET MOUSE /PEROGNATHO	(200,055)
RADIOLOGICAL PHYSICS RESEARCH — METABOLISM, QUANTUM YIELD OF LI SHIELDING, FILM DOSIMETERS, RAD	ON METEOROLO	LATORS, GY	M63-23531 MEYABOLIC RAYES OF IRRADIATED POCKET MICE PERGGNATHUS LONGIMEMBRIS - SPACE BIOLOGY	24-16
ANL-6646 RADIOPHYSICS - METABOLIC MODEL			N63-23533	
RADIOACTIVE ALKALINE EARTH ISOT MATHEMATICAL POWER FUNCTION	OPES USING		PROPOSED EXPERIMENT - EFFECTS OF EXTRATERREST RESIDENCE ON POCKET HICE - METABOLIC RHYTHM N63-23537	7RIAL 24-16
NOREPINEPHRINE THERMOGENESIS IN ACCLIMATIZED RATS — CARDIOVASCU EFFECTS			LIFE SUPPORT SYSTEM FOR STUDY OF BIOLOGICAL IN POCKET MICE N63-23538	
AAL-TOR-62-51	N63-19057	19-16	RIBONUCLEIC ACID IN METABOLIC POOL, RNA OF	HAVEE H (A) SA
SEASONAL VARIATIONS IN BLOOD VO CIRCULATING METABOLITE LEVELS O AAL-TDR-62-53			ESCHERICHIA, PROTEIN SYNTHESIS, 6 RMA RADIDACTIVITY - BIOPHYSICS N63-23543	24-16
BIOCHEMICAL DETECTION OF EXTRATUSE OF RADIOISOTOPIC METABOLIC	DETECTION ON	HARS	METAL SA ALKALI METAL SA ALUMINUM SA ANTIMONY	
CIRCULATORY AND METABOLIC EFFEC	N63-19482		SA ANTIMONY SA BARIUM SA BERYLLIUM	
INACTIVITY ON HUMAN BODY			SA BISHUTH SA CADHIUN	
HANFORD BIOLOGY RESEARCH ANNUAL			SA CALCIUM SA CERIUM	
TOXICITY AND METABOLISM OF RADI ANIMAL AND PLANT PHYSIOLOGY, EC	DACTIVE ELEM		SA CESIUM SA CHRONIUM	IF IND
HW-76000	N63-19706	19-16	SA COBALT SA COPPER	
DISTRIBUTION & METABOLISM OF ME GUANIDINE AND BIS /GUANIDOETHYL SAM-TDR-62-68			SA DYSPROSIUM SA EUROPIUM SA GADOLINIUM	
EFFECT OF RADIATION ON CARBOHYD		40.00	SA GALLIUM ANDRES THE PROPERTY OF THE PROPERTY	
MONKEYS - HYPERGLYCEMIA SAM-TDR-63-40		20-16	SA GOLD	- KIRK
MAGNESIUM METABOLISM IN RATS - IN VIVO AND IN VITRO	TRANSPORT ME		SA HOLMIUM SA INDIUM	十名社
AAL-TDR-62-41	N63-21396	22-16	SA IRON SA LEAD	吃點
PERUVIAN INDIANS - THERMAL AND TO COLD AAL-TDR-62-64	MINISTRANCES IN STREET	SPONSE 22-16	SA LIQUID METAL SA LITHIUM SA MAGNESIUM	
TAMMEN AFFET-FAM	NO3-21400		SA MANGAMESE	F3/41/4

A HERCURY			11-60 17311-037	N63-10921	02-1
A NOCKEL			EFFECT OF TUNGSTEN POWDERS ON PLA SINTERED STRUCTURES	ASMA SPRAYED N63-10963	AND 02-1
A MIOBIUM A PALLADIUM A PLATINUM			NONFERROUS METALS - DEFORMATION S NIOBIUM, SILUMIN, TITANIUM	STRUCTURE OF	
A POLONIUM A POLONIUM			JPRS-16855	N63-11337	03-1
A POTASSIUM A RADIUM			POWDER METAL AND SILICON-CARBIDE JPRS-16854	BASE MATERI N63-11521	ALS 03-1
A REFRACTORY METAL A RHENIUM A RHODIUM			METALLIC THIN FILM COMPOSITE MATE ASD-TDR-62-617	RIALS N63-11570	04-1
A RUBIDIUM A RUTHENIUM			THERMODYNAMICS OF SEVERAL LIGHT	TETAL OXIDES	
A SCANDIUM			HALIDES AND OXYHALIDES OR-3530-2	N63-11573	04-
SCRAP METAL			TRANSPORT PHENOMENA AS APPLIED TO	THERMOCOUP	LES
A SILVER A SODIUM			APPLICATION OF BOLTZMANN EQUATION AFCRL-62-1047	NS N63-11709	04-
A STRONTIUM A TANTALUM			PROPERTIES OF METALS AND ALLOYS F		
THORIUM			ARDC-TR-59-66	N63-11721	04-
A TIN A TITANIUM A TUNGSTEN			AIR WEAPONS MATERIALS - METALS AN HANDBOOK ARDC-TR-59-66, SUPPL. I		04-
URANIUM VANADIUM VYTERBIUM			LOCALIZED MAGNETIC MOMENTS IN MET MRL-125		04-
YTTRIUM			GAS-METAL REACTION IN ROCKET NOZZ		04-
ALLOY COMPOSITE MATERIAL			METABOLISM OF RADIOISOTOPES OF RA		•
NOMMETAL TRANSITION ELEMENT			ALKALINE EARTHS, AND HEAVY METALS		04-
ULTRASONIC INSPECTION EQUIPMENT DETERMINING AIRCRAFT CORROSION		OUES FOR	COPRECIPITATION, COEVAPORATION, C	OMMINUTION	1975
CHEMICAL, OPTICAL, AND MATHEMAT				N63-11939	
OF THIN ABSORBING FILMS ON METAL AFCRL-62-1045			CORROSION OF METALS AND METHODS OF		
METALLIC FUEL ELEMENT MATERIALS			JPRS-17253		05-
APEX-913		01-18	MECHANISM FOR NOISE OF THIN EVAPOR		
POLAR MODEL OF ORDERING ENERGY I MRL-123		01-25	THE RESERVE THE RESERVE TO SERVE TO SERVE THE	N63-12044	05-
BERYLLIUM RESEARCH - ELECTRON MI		OWDER,	STRAIN MEASUREMENTS ON ALUMINUM-C ALLOY PLATES LOADED IN TENSION		
RECRYSTALLIZATION, AND IMPURITED NMI-9522	N63-10311	01-18	RAE-TRANS-996	N63-12112	05-
RESEARCH ON METAL CONTACTS TO SE AROD-2838-1	MICONDUCTOR N63-10367	S 01-25	PLASTIC ANISOTROPY IN BEHAVIOR OF WAL-TR-834.12/2	N63-12166	OS-
KINETICS OF HIGH TEMPERATURE REA		EN	NONFERROUS METALLURGY - STRUCTURA HARDENING AND RECRYSTALLIZATION O COMBUSTIBILITY OF TITANIUM AND IT	F MOLYBDENU	
PA-TR-3013	N63-10425	01-26		N63-12186	05-
ORIDES OF RARE EARTH METALS	N63-10478	01-18	HEMISPHERICAL EMITTANCE OF METALL TO SPUTTERING WITH HYDROGEN IONS		WE
HOT ELECTRON EMITTER	N63-10507	01-25	NASA-TN-D-1646 MIGRATION OF VACANCIES IN CRYSTAL	N63-12214	OS-
PHYSICS OF METALS AND METALLOGRA	IPHY		TO DELAYED FRACTURE OF METALS USI		05-
TD-TT-62-625/1&2 RESONANCE ABSORBERS WITH ABSORBI	N63-10519 ING STRUCTUR		RELATIONSHIPS BETWEEN CRYSTAL STR DEFORMATION STRESS, AND PROPERTIE	S OF METALS	295
ADC-TDR-62-530	N63-10572	01-23			
HERMODYNAMIC DESCRIPTION OF MET			SOVIET STUDIES ON METALLIC COMPOU OF YTTRIUM CARBIDES, AND PLASTIC SOLID SOLUTIONS	DEFORMATION	OF
DEFLAGRATION TO DETONATION OLTR-62-149	N63-10653	02-23		N63-12230	05-
EINFORCEMENT OF METALS WITH ULT	RAHIGH STRE	NGTH 02-17	METALLIC CRYSTAL LATTICE IMPERFEC FATIGUE AND FRACTURE OF THIN ALUM		05-
ETAL CRYSTAL EVAPORATION MECHAN			WORK HARDENING MECHANISMS IN BODY		BIC
FFECTS OF ENVIRONMENT ON STRENG		SA BURGERS		N63-12284	05-

-18 D -18

-18

-07

-24

-18

16

IA 23

17

09

33 S 118 S 118

8

8

17

3

8

SPECTROGRAPHIC ANALYSIS OF METALLIC IMPURITIES IN SANTOWAX RT/CHI/62/13 N63-12447 06-07	ALUMINUM FATIGUE TEST, SUBGRAIN FORMATION, CRACK PROPAGATION IN METALS AND ALLOYS N63-14797 11-33
INTERACTIONS IN METAL CRYSTALS AND KINETICS OF METAL OXIDATION REACTIONS N63-12578 06-18	EFFECT OF HIGH ENERGY ALPHA RAY ON CORROSION OF METAL EXPOSED TO CHLORIDE SOLUTION
EXPERIMENTAL TECHNIQUES FOR PREPARING METAL OR SENICONDUCTOR SURFACES FOR USE IN ADSORPTION STUDIES N63-12675 06-25	ORNL-3265 N63-14813 11-07 CERENKOV RADIATION FROM CHARGED PARTICLE IN MOTION THROUGH DIELECTRIC WITH METAL FILMS
HIGH TEMPERATURE IRRADIATION TEST OF URANIUM DIOXIDE CERMET FUELS 841-1608 N63-12687 06-26	AFCRL-63-80 N63-14819 11-23 INTERACTION OF LASER LIGHT WITH METAL - ELECTRON- OPTICS INTERACTION IN METAL VAPORIZATION
HETAL FIBER REINFORCED SOLDERING TAPE AND BEARINGS OF LEAD-TIN ALLOYS ARF-8765-25 N63-12801 06-18	RM-3560-PR N63-14868 11-25 FIELD EMISSION CURRENT IN MAGNETIC FIELD APPLIED TO SEMIMETALS AND SEMICONDUCTORS
ADSORPTION AND EXCHANGE ON METAL SINGLE CRYSTALS	N63-15298 12-23
ANDO-3156-1 NG-12802 06-07 REFRACTORY MATERIALS FOR ADVANCED ROCKET ENGINE	SYNTHESIS AND ULTRAVIOLET SPECTRA OF KETONES FROM BICYCLOMEPTADIENE AND METAL CARBONYLS - PHOTOCHEMICAL AND THERMAL ADDITION REACTIONS
COMPONENTS R-3350-3 N63-12944 07-18	AFCRL-62-860 N63-15315 12-07
THERMODYNAMIC PROPERTIES OF METAL HALIDES WITH VAPOR PRESSURE REFERENCES AND BIBLIOGRAPHY	FAILURE OF METAL RING STRUCTURES AT HIGH STRAIN RATE — UNIFORM ELONGATION WAL-TR-111-2/20-1 N63-15383 12-18
RM-IC-8147 N63-13037 07-07	STRAIN DISTRIBUTION ON NOTCHED SPECIMENS AT CREEP
EFFECT OF ELASTIC INTERACTION ON RATE OF CLUSTER GROWTH IN METAL CRYSTALS - POINT DEFECTS HIGRATION	TEMPERATURE DURING LOADING ASD-TDR-62-710 N63-15838 13-18
AROD-2064-4 N63-13052 07-18	EFFECT OF SURFACE ENVIRONMENT ON MECHANICAL BEHAVIOR OF METAL
EXPOSURE OF WELDED METALS TO CHLORINE TRIFLUORIDE AND PERCHLORYL FLUORIDE N63-13093 07-17	ASD-TDR-62-99 N63-15858 13-18
COMBUSTION OF METALS - PROPELLANTS, IGNITION, BURNING, REACTION KINETICS AND FLAME TEMPERATURE	STRESS-CORROSION CRACKING OF METALS OTS-51084 N63-15951 13-18
CAL-86-P N63-13109 07-26 EFFECTS OF GASEOUS DIFFUSION ON RATE OF OXIDATION	RELATIONSHIP OF PLASTIC ANISOTROPY TO CRYSTALLOGRAPHY TEXTUBE FOR CUBIC METAL WAL-TR-634.12/2-1 N63-15974 13-18
OF METAL FORMING VOLATILE OXIDE N63-13171 07-07	FATIGUE AND DEFORMATION OF PURE FCC CRYSTALS
DERIVATIVES OF FERROCENE - PART I, METALLATION	N63-16120 13-18
N63-13241 07-07	THERMOCONDUCTIVITY - METALS, ALLOYS AND SEMICONDUCTORS
CORROSION RESISTANCE OF STRUCTURAL METALS TO MOLTEN LITHIUM HYDRIDE IN AIR, ARGON AND HYDROGEN ER-4774 08-18	ASD-TDR-62-74 N63-16305 13-25 ELECTRON BEAM WELDING OF AEROSPACE METALS
THERMODYNAMIC PROPERTIES OF METALS AND ALLOYS	ASD-TDR-63-132 N63-16322 13-17
N63-13839 09-18	DEVICE FOR DIRECTLY MEASURING STRAIN GRADIENT IN METALS SUBJECTED TO HYPERVELOCITY PENETRATION
DILATION CONTRIBUTION TO HEAT CAPACITY OF METALS AND ALLOYS N63-14078 09-18	N63-16356 14-18
METALLIC ELECTRODES FOR HYDROGEN-OXYGEN FUEL CELLS	EVALUATION OF USE OF METAL SPHERES AS TARGETS FOR GUIDED MISSILE RADAR SYSTEMS RE-TR-62-6 N63-16448 14-08
ELECTRICAL CONDUCTIVITY, OXIDATION RESISTANCE, AND MECHANICAL PROPERTIES OF CONDUCTORS AT ELEVATED	EFFECT OF SURFACE FILMS ON MECHANICAL PROPERTIES OF METALS No.3-16569 14-18
TEMPERATURES - PURE METALS AND ALLOYS ASD-TRD-62-481 N63-14230 09-18	EFFECT OF SURFACES ON MECHANICAL BEHAVIOR OF
SUPERCONDUCTIVITY IN METALS AND ALLOYS - KAPITZA	METALS ASD-TDR-63-101 N63-16576 14-18
RESISTANCE MEASUREMENTS IN TIN AND INDIUM, ON TRANSITION CHANGE, AND SAPPHIRE INSULATOR ASO-TDR-62-1111	EXPLOSIVE DEFORMATION OF METAL BEAMS - DEFLECTION VS. TIME MEASUREMENTS OF CENTRALLY LOADED FREE AND
FATIGUE TESTING OF METALS AND ALLOYS - STRAIN	CLAMPED BEAMS - STRUCTURAL DYNAMICS N63-16613 14-33
CYCLING IN LOW AND INTERMEDIATE LIFE RANGE NASA-TN-D-1574 N63-14250 10-33	CORRELATION OF HIGH LOADING RATE REACTIONS WITH LOW RATE TESTS IN METALS - PREDICTION OF DYNAMIC
METAL DIAPHRAGH PRESSURE RELAY SYSTEM TO HEASURE VAPOR PRESSURES - TESTED WITH ARSENIC III OXIDE	BEHAVIOR UNDER EXPLOSIVE LOADING N63-16622 14-18
8H-RI-6212 H63-14255 10-15 EFFECTS OF RESIDUAL STRESSES ON RANDON FATIGUE	BEHAVIOR OF METALS UNDER IMPACT AT HIGH TEMPERATURE N63-16713 14-18
LIFE IN BENDING NOTCHED 7075-T6 ALUMINUM ALLOY SPECIMENS ASD-TDR-62-1075 N63-14649 10-18	WORK FUNCTION CHANGES OF METALS AND SEMICONDUCTORS PRODUCED BY CHEMISORPTION ON SURFACES WITH
HYPERVELOCITY IMPACT - SPALLATION PRODUCT BY HIGH	DIFFERENT TYPES OF ADSORPTION SITES NASA-CR-50027 N63-16721 14-23
MEL OF THE SECOND SECOND OF DESIGNATION OF THE SECOND SECO	THE RESERVE THE PROPERTY OF THE PARTY OF THE

THERMIONIC EMISSION FROM METAL CRYSTALS IN ALKALI METAL VAPORS

HYPERVELOCITY IMPACT - SPALLATION PRODUCT BY HIGH VELOCITY PROJECTILES PENETRATING THIN METALLIC TARGETS N63-14748 11-33

AFCRL-63-451	N63-16735 1	14-18	EFFECT OF METAL PROPERTIES ON HYPER PENETRATION - CRATER VOLUME AND STR		EMT.
METAL PURIFICATION AND D		14-07	NOMOGRAPHS FOR ENERGY BALANCES	3-18813	18-18
PREPARATION OF METALS FR COMPOUNDS - THERMAL DECO			THERMODYNAMIC PROPERTIES OF LIGHT M HALIDES & DXYHALIDES N6	ETAL OXID 3-18886	ES, 18-07
SURVEY AFCRL-63-22/X	N63-16976 1	14-07	EFFECT OF SULFUR IN JET FUEL ON TUR GUIDE VANES - 12-HOUR METAL LOSS TE		
IMPROVED OXIDATION RESIS	AND OTHER SELECTED ME		WITH AND WITHOUT CONTAMINATION AND	SUPERALLO	YS
METTABILITY OF VARIOUS P	URE METALS AND ALLOYS		EFFECTS OF SPACE VACUUM ENVIRONMENT ELECTRONS, ELECTROMACNETIC RADIATIO METALS, PLASTICS, CERAMICS, DILS AN NO	N AND ION	S ON
ULTRASONIC METHOD OF NON CERAMIC COATINGS AND CER	DESTRUCTIVE TESTING OF		RADIATION EFFECT ON METAL BORIDE CR GEAP-3743, PT. III	YSTALLOGR	APHY
WADD-TR-61-91, PT. III	N63-17117 1	15-17	GAS-COOLED HIGH-TEMPERATURE NUCLEAR	REACTOR	-09/1
FLOW AND FRACTURE IN MET. MATERIALS ARPA-E6		JRAL 15-33	DESIGN - CELLULAR METALLIC FUEL REA APEX-800, PT. B	3-19327	18-10
METAL TO CERAMIC SEALING NA-27-0001	TECHNIQUES	15-17	RESEARCH, DEVELOPMENT, AND FABRICAT EMISSION CATHODES - IMPROVEMENTS IN FOR METAL FILM DEPOSITION NO	VACUUM S	YSTEM
WEATHER EXPOSURE DATA FOR COATINGS ON CHROMIUM HOT- ASD-TDR-62-888	-WORK TOOL STEELS	6-18	MOIRE METHOD AND BIREFRINGENT COATI MEASURING POST-ELASTIC SURFACE PROP METALS	NG METHODS	S OF
METAL CORROSION OF ZIRCO	NIUM ALLOYS IN WATER A	AND	ME-6 N6	3-19435	19-33
STEAM AT HIGH TEMPERATUR AECL-1724	E AND PRESSURE	6-18	CORROSION PREVENTION COMPOUNDS FOR NONFERROUS METALS IN STORAGE RIA-63-1836 N6	FERROUS AI	
CHEMICAL COMPOSITION OF	N63-17866 1	6-17	ADHESIVE BONDING OF END CLOSURES FO AND RELIABILITY OF METALS IN ROCKET	MOTOR CAS	SES
EFFECT OF METAL HARDNESS FRETTING CORROSION	Section of the Sectio				19-34
K1A-63-1635	M03-11930 1	6-18	CONSTRUCTION AND DESIGN OF EQUIPMEN HOLE PUNCHING OF METALLIC PLATES -	DYNAMIC	
EFFECTS OF ULTRASONICS OF CADMIUM, ZINC CRYSTALS		6-18	DEFORMATION N6 COMPATIBILITY OF CESIUM VAPOR WITH	3-19617	19-17
DIFFUSION IN METALS - CH EXCHANGE REACTIONS AEC-TR-4506		6-18	MATERIALS - REFRACTORY METAL, PRECI LIGHT METAL & NONMETAL AT HIGH TEMP	OUS METAL	•
			PRACTURE RESISTANCE OF NOTCHED META		
TENSION AND STRESS STRAIN METAL ASD-TDR-63-361		6-18	VARYING DIMENSION EFFECT ON CRACK P	ROPAGATIO	N
METAL SANDWICH CONSTRUCTS8-62-8	ION - BIBLIOGRAPHY	6-34	DUCTILITY OF METALS - CRACK PROPAGA	TION	20-18
TECHNIQUES TO COAT BINET	AL JOINT USING METAL	ON	HIGH TEMPERATURES OBTAINED BY COMBU	STION OF	
RIA-63-1419	N63-18283 1	7-17	CEDANIC TO METAL SEALS FOR HIGH TEN		
ABSORPTIVITY AND EMISSIVE GAS STREAM - HEAT TRANSFE NASA-CR-50317	R TO GAS	7-13	THERMIONIC CONVERTERS RBESO-3404-3	3-20369	20-17
RADIOACTIVE TRACER AND W	ORK FUNCTION OF	1791.1	CRACK INITIATION IN METALLIC MATERI MET-E-1040-6305Q2 N6	ALS - TUN	GSTEN 20-18
CHEMISORPTION OF GAS ON	HETAL	7-23	METAL - MOLTEN METAL HALIDE SOLUTIO	INS -	
FILM THICKNESS EFFECT ON METAL FILMS - ELECTRON BO	DMBARDMENT OF SILICA		ELECTROLYTIC ACTIVITY, PHASE DIAGRA EQUILIBRIUM CONSTANTS, & COLORIMETR ONRL-3391 N6	Y selese	20-07
NASA-CR-50531	N63-18414 1	7-28	ANNEALING RESPONSE OF INTERNALLY OX	IDIZED SI	LVER-
MEASURING REFRACTION INDI ULTRAVIOLET SPECTRAL REG	LON		MAGNESIUM ALLOYS UCRL-10816 N6	3-20542	20-18
NASA-CR-50265 METAL PARTICLE CONTENT II	The transfer of the	7-23	DIRECT CURRENT ELECTROLUMINESCENCE ACTIVATED ALUMINUM OXIDE ANODIC MET	AL FILMS	
METHODS OF ANALYSIS KN-676-1/PR/	N63-18623 1	7-06	THE PARTY OF THE P	3-20592	20-07
FAILURE MECHANISMS AT IN	TERFACE BETWEEN METAL	FILM	STRESS CONCENTRATION EFFECT ON BRIT TENSILE DEFORMATION, AND PLASTIC FL	OW IN CER	AMICS
AND THIN FILM DIELECTRIC RADC-TDR-63-152	N63-18640 1	7-09	AND METALS ASD-TDR-63-380 N6	3-20703	21-33
CYCLIC TEMPERATURE EFFECT STRUCTURES - MATERIALS SE		AND	THERMAL DIFFUSIVITY MEASUREMENTS ON CERAMICS AT HIGH TEMPERATURES	HETALS A	ND
AGARD-410		7-33		3-20823	21-13

8 7 5

9

0

33

07

17 N 18

07 --18 -07 -S

-13

COLLECTIVE BEHAVIOR OF METALL! IN TERMS OF DENSITY DISTRIBUTE PLASHONS IN METAL			AND NOZZLE MATERIALS OF GRAPHIT	E AND REFRACT N63-19792	ORY 19-26
R-68		21-25	METAL FATIGUE FATIGUE OF METALS AND STRUCTURE	S - EFFECT OF	181
ANISOTROPY, ELASTICITY AND PLA	N63-21006		STRESS GDC-62-55A	N63-14023	09-33
INFLUENCE OF WELDING VARIABLES AND PLASTICITY OF WELDED ALUM PLATE		LLOY	METAL EMBRITTLEMENT BY ORGANIC MECHANICAL PROPERTIES - STATIC FATIGUE TESTS		OAN SAN
METALS FOR AEROSPACE USE - IN	DEX OF RESEARCH		ARF-8183-13	AND WINESPEED AND	10-18
PROGRAMS ASRCE-TM-62-24	N63-21386	22-18	INFLUENCE OF SURFACE COATING ON EMISSION DURING METAL FATIGUE		
HEAT TRANSFER BY RADIATION OF			NASA-CR-50477	N63-18398	OTHER PROPERTY.
BOUNDARY LAYER ENERGY EMISSION AGARD-211		22-13	ASD-TN-61-117, PT. IV	N63-18721	
EFFECT OF RANDOM LOADING ON CONONLINEAR METAL STRUCTURAL MAT		IN	STRAIN AGING EFFECTS ON CRACK P	ROPAGATION AN	
ASD-TDR-63-646	N63-21705	22-33	EFFECTS OF ULTRASONICS ON FATIG	3530 - KARE (-E	
MECHANICAL PROPERTIES OF ANNEA		SE	OF METALS	N63-20697	21-18
A073	1. 105. 00.000.00.00	22-18	FATIGUE OF COPPER AND AN ALUMIN	HUM ALLOY	
SELECTED VALUES OF THERMODYNAM METALS AND ALLOYS		22-18	ARL/HET-48	N63-22063	22-18
PREPARATION AND EVALUATION OF	FUSED HAFNIUM		PROLONGED EXPOSURE TO HIGH VACU	JUM , FOR - 13-15	SEA
BM-RI-6304	N63-22239	23-19	FRANCISCO PROPERTY AND	N63-22480	23-18
PENETRATION OF METAL TARGETS (THICKNESSES BY HYPERVELOCITY (CRACK PROPAGATION IN METAL FATI GALCIT-SM-63-15	N63-23813	24-18
THICKNESSES OF MITERIESCETT	N63-22345	23-23	METAL FOIL MANUFACTURING METHODS FOR LIGHT	WEIGHT METAL	Enti
REACTION OF FINE HETAL WIRES		23-18	HEAT EXCHANGERS	N63-10791	02-13
THERMAL SPECTRAL RADIATION OF			METAL FOIL HEAT EXCHANGERS - MA	NUFACTURING P	NETHODS 05-13
METALS WADD-TR-60-370, PART III	N63-22597	23-13	LIMITATION OF MULTILAYERED RADI		
SPECIAL METAL PROPERTIES	N63-22643	23-18	CONDUCTION AND RADIATION TRANSF	FER IN METAL 1 N63-16057	
COMPATIBILITY OF CERAMICS, ME	TALS, AND ALLOYS	WITH	METALLURGICAL STUDIES WITH ELEC		
CESIUN LAMS-2948	N63-22908	23-06	PREPARATION OF THIN METAL FOILS E-498-MC	N63-19717	
ELECTROMAGNETIC WAVE DIFFRACT	ION IN PLANE HET	TAL	HETAL-GAS SYSTEM	1-18315 A. 44	
JPRS-21329	N63-22965	23-08	IN TERMS OF DENSITY DISTRIBUTION		
PLASTIC & METAL MOLDS FOR SOLE	ID PROPELLANT		PLASHONS IN METAL	N63-20950	21-25
PA-TH-1250	N63-22977	23-19	METAL HALIDE THERMODYNAMICS OF SEVERAL LIGHT	NEVAL OVIDE	SHE
DISLOCATIONS IN CRYSTAL LATTIC	CES OF METAL N63-23053	24-25	HALIDES AND OXYHALIDES OR-3530-2	N63-11573	SHE'S
KINETIC EQUATIONS FOR ELECTRO	12.00	10	THERNODYNAMIC PROPERTIES OF NET	w Macamanas	
SIMPLIFIED MODEL OF METAL MATT-182	N63-23156	24-25	VAPOR PRESSURE REFERENCES AND B		07-07
SPACE METALS FOR FUTURE USE -	SUPERCONDUCTORS	24-19	RHENIUM-III CHLORIDE VAPOR PRES HEAT AND ENTROPY OF SUBLIMATION		
APPLICATION OF STATISTICAL TH	EORIES OF STRENG	TH TO	METAL HALIDES	N63-13435	08-07
METAL-CERAMIC MATERIALS FTD-TT-62-1765/162	N63-23733	24-19	BIBLIOGRAPHY OF SOLID STATE RES COMPOUNDS OF ALKALI METALS & HA	SEARCH - BINA	RY
TAL CARBIDE PHASE EQUILIBRIUM RELATIONS O		3H 93	GROUP I TO VII COMPOUNDS, VOL I		
HIGH TEMPERATURES	CONTRACTOR		ABSORPTION SPECTRA OF VARIOUS P	The second of	
WADD-TR-60-143, PT. IV KINETICS OF OXIDATION OF REFR.	ACTORY METALS AN		OXIDES, ELEMENTAL AND INERT GAS UCRL-7238	SES - BIBL 106 N63-16144	RAPHY
ALLOYS BETWEEN 1000 AND 2000- CARBIDES, COPPER, HOLYBDENUM	DEG C - METAL	THE	THERMODYNAMICS OF LIGHT METAL C	TO THE PERSON OF	21.5
ASD-TDR-62-203, PT. II	N63-15880	13-18		N63-16584	
PROPERTY ANALYSIS OF NONSTOIC CARBIDES - PERIODIC GROUP IV			THERMODYNAMIC PROPERTIES OF LIG HALIDES & OXYHALIDES	GHT METAL DXI N63-18886	DES. 18-07
	CERAL TO WORKER IN	1200	MARGALIN METAL 1141 100 DAFFARANCE		

CHEMICAL REACTIONS BETWEEN SOLID PROPELLANT GASES

YTTRIUM METAL HALIDE PREPARATION BY METALLOTHERMIC REDUCTION

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BM-RI-6259	N63-19601	19-07	ADSORPTION OF POLAR ORGANIC COMPOUNDS ON NET	AL
METAL - MOLTEN HETAL HALIDE SOLUT	TEOMS -		SURFACES AROD-2281-4 N63-18140	16-07
ELECTROLYTIC ACTIVITY, PHASE DIAG	GRAMS OF			
EQUILIBRIUM CONSTANTS, & COLORIME ONRL-3391	TRY N63-20395	20-07	METAL WORKING SA BRAZING	
		35 01	SA FORGING	
METAL HYDRIDE HYDRIDES OF THE TRANSITION METALS			SA FORMING SA ROLLING	
AEC-TR-5224			SA WELDING	
SPECTRAL INVESTIGATION OF METALLI REVEALING NEW BANDS FOR STRONTIUM			METAL MACHINING PROCESSES - ULTRASDUND, ELEC BEAM, AND HYDROEROSION FTD-TT-62-1357/1 N63-12821	
MOLECULAR STRUCTURE		22-23	F10-11-02-1357/1 H03-12021	00-11
METAL OXIDE			HIGH VELOCITY METALWORKING - BIBLIOGRAPHY DMIC-179 N63-18251	
HIGH-TEMPERATURE GROWTH MECHANISM CRYSTALS OF METAL OXIDES AFCRL-62-771		03-25	METAL WORKING APPLICATIONS OF LASERS - ANNOTATED BIBLIOGRAPHY	
			SB-63-22 N63-19444	19-24
THERMODYNAMICS OF SEVERAL LIGHT M HALIDES AND OXYHALIDES	ETAL UXIDES	24	WORK HARDENING CHARACTERISTICS OF THORIUM	
	N63-11573	04-07	IS-576 N63-20765	21-18
ABSORPTION SPECTRA OF VARIOUS MET			CYCLIC WORK-HARDENING OF ALUMINUM & COPPER S	INGLE
OXIDES, ELEMENTAL AND INERT GASES UCRL-7238			CRYSTALS ARL-63-114 N63-20990	21-25
ENERGY LEVELS OF MAGNETIC IONS IN	COMPLEX M	FTAI	REFRACTORY COMPOSITES - METAL COATING. HEAT	
OXIDES - ORTHOFERRITE PARAMAGNETI SPIN STRUCTURE COMPARED TO ORTHOA	C RESONANCE		RESISTANCE, AND PLASMA SPRAYING DMIC-184 N63-20994	
	N63-16309	13-23	at an other firms to contributed that editable	
THERMODYNAMICS OF LIGHT METAL OXI	DES, HALIDI N63-16584		USSR INDUSTRIAL DEVELOPMENT - METALMORKING EQUIPMENT, SHEET METAL STAMPING BY EXPLOSION JPRS-21459	
ALKALINE-EARTH METAL OXIDES AS TH	EDWICNIC		METALLOGRAPHY	
CATHODES - PRIMARY ELECTRON SOURCE		ON TUBE	CF CRYSTAL STRUCTURE	
DEVELOPMENT			CF HETALLURGY	
AFCRL-63-84	N63-16867	14-09	PHYSICS OF METALS AND METALLOGRAPHY FTD-TT-62-625/162 N63-10519	01-23
VAPOR DEPOSITION OF REFRACTORY ME		ON		
GRAPHITE BY PYROLYSIS OF ALKOXIDE ASD-TDR-63-322	S N63-18116	16-07	METALLURGICAL AND METALLOGRAPHIC INVESTIGATI FTD-TT-62-134/1 N63-10520	
THERMODYNAMIC PROPERTIES OF LIGHT HALIDES & OXYHALIDES		DES, 18-07	BERYLLIUM RESEARCH AND DEVELOPMENT PROGRAM - PHYSICAL PROPERTIES, METALLOGRAPHY, CRYSTALLOGRAPHY	
METAL POWDER			NHI-9525 N63-12712	06-18
THEORY OF COMPACTING METAL POWDER				
METALLURGY, ELASTICITY, SINTERING JPRS-16573	N63-10983	02-18	METALLOGRAPHY OF DISPERSION-HARDENED ALLOYS ITS RELATION TO CREEP RESISTANCE N63-15436	
METAL SHELL				
FINITE ELASTIC SLUMP OF INFINITEL INCOMPRESSIBLE CYLINDER BONDED TO			TUNGSTEN AND HOLYBDENUM METALLURGY AND METALLOGRAPHY	
TUBE - FAILURE PREDICTION FOR MET.		BER	NASA-TT-F-135 N63-18312	17-18
SHOCK WAVE PROPAGATION IN SOLIDS		MUZALL	VIBRATORY POLISHING VARIABLES IN METALLOGRAP IS-662 N63-21653	22-18
TIME SCALE OF UNSTEADY MOTIONS IN	ITIATED IN		CONTINUE IN CARATAL JATURES OF PERSON	
SPHERICAL SHELLS BY BLAST IN SHEL	L INTERIOR N63-16315	13-22	PREDICTION OF HIGH TEMPERATURE METALLIC PHAS	ES
Total Control of the	403-10313	13-23	UCRL-10701 N63-22669	23-18
HETAL SPRAYING TECHNIQUES TO COAT BIMETAL JOINT	USING METAL		METALLOSILOXANE POLYMER	
FLAME-SPRAY METHOD TO PREVENT GAL			ROCKET LINERS - METALLOSILOXANE COPOLYMERIC	
	N63-18283		ELASTOMERS	06-19
METAL SURFACE			ROC/LIN-FINAL N63-12667	00-19
RADIATION TRANSFER FROM A METALLI		HTI	METALLURGY	
CARBON DIOXIDE CRYODEPOSITS AT 77- AEDC-TDR-62-165		02-23	SA POWDER METALLURGY CF FRACTOGRAPHY	
			CF MATERIALS SCIENCE	
BEHAVIOR OF ATOMIC HYDROGEN AT CO				LATER.
SURFACES	N63-11163	03-07	CF METALLUGRAPHY METALLURGICAL AND METALLUGRAPHIC INVESTIGATI	ONS
HEAT TRANSFER OF METAL SURFACES -		TOTAL ST	FTD-TT-62-134/1 N63-10520	
RESISTANCE FOR SPACE ENVIRONMENT ALUMINUM-BERYLLIUM STUDY			SPECIFIC AREA OF POWDERS USED IN HARD ALLOYS	• 100
E-1173	N63-12919	07-13	TESTING METHOD, NITROGEN ADSORPTION JPRS-16167 N63-10623	02-18
OPTICAL AND INFRARED PROPERTIES OF	F HETALS -			DAA
OPTICAL PROPERTIES OF SATELLITES NASA-TH-D-1523		10-23	MATERIALS SCIENCE, METALLURGY - LECTURES ASD-TDR-62-396 M63-10745	02-18
CHEMICAL REGENERATION OF HOT METAL			THEORY OF COMPACTING METAL POWDERS - POWDER	
SUBLIMATION OF THERMIONIC CONVERT	ERS	16-07	METALLURGY, ELASTICITY, SINTERING JPRS-16573 N63-10983	02-10
\$150 PM	10101	10-01		04-10

-07

17

18 E

19

16

23

18

.

8

8

9

8

8

MATERIALS SCIENCE - METALLURGY, CHEMICAL ENGINEERING, CERAMICS N63-14944

METASTABLE ATOM

	HIGH-STRENGTH STEEL METALLUST.
AIR FORCE MATERIALS RESEARCH - CERAMICS, GRAPHITE, METALLURGY, LUBRICANTS, FLUIDS, AND FUELS WADC-TR-53-373, SUPPL. 9 N63-11239 03-01	CHEMISTRY, ENGINEERING, METALLURGY, AND PHYSICS RESEARCH - SUMMARY REPORT IS-500 N63-14961 11-01
EVALUATION OF SPECIAL METAL PROPERTIES N63-11458 03-18	PROPERTIES OF IRON AND TITANIUM BASE ALLOYS ASD-TDR-62-535 N63-15064 11-18
AUSFORMING HIGH STRENGTH AUSTENITIC STEELS USING	ENGINEERING RESEARCH SUMMARY - STRUCTURAL, CIVIL,
EXTRUSION METHODS AID-S-63-5 N63-12027 05-18 ELECTRON MICROSCOPIC FRACTOGRAPHY IN METALLURGY	MECHANICAL & ELECTRICAL ENGINEERING AERONAUTICS, METALLURGY, AGRICULTURE AND NUCLEAR PHYSICS CM-73194 N83-16103 13-01
DMIC-MEMO-161 N63-12184 05-33	
NONFERROUS METALLURGY - STRUCTURAL CHANGES DURING HARDENING AND RECRYSTALLIZATION OF MOLYBDENUM,	HIGH EMERGY RATE METAL WORKING BIBLIOGRAPHY - METALLURGY, MATERIALS SCIENCE NA62H-46 N63-16934 13-17
COMBUSTIBILITY OF TITANIUM AND ITS ALLOYS JPRS-17306 N63-12186 05-18	CERAMICS, FUEL SYSTEMS, AND PLUTONIUM METALLURGY HM-76300 N63-16411 14-17
CHEMICAL, SOLAR, NUCLEAR ENERGY - THERMOELECTRIC & THERMIONIC DEVICES - METALLURGY, REFRACTORY, POLYMERIC & COMPOSITE MATERIALS - ABSTRACTS	FUTURE TRENDS IN BERYLLIUM METALLURGY UCRL-7289 N63-16566 14-18
TDR-930/2701-01/TN-1, VOL. II N63-12222 05-27	MECHANICAL PROPERTIES AND METALLURGICAL CHARACTERISTICS OF CHROMIUM AND MAGNESIUM OXIDE
PHYSICAL METALLURGY OF TUNGSTEN AND TUNGSTEN BASE ALLOYS RELATED TO TENSILE STRENGTH AND DEFORMATION MADD-TR-60-37, PT. III N63-12276 05-18	COMPOSITE NASA-TN-D-1785 N63-17340 15-18
PRESSURIZED WATER REACTOR PROJECT - CORES.	STATISTICAL DESIGN OF EXPERIMENTS IN METALLURGICAL RESEARCH
SEEDING, DECONTAMINATION, METALLURGY WAPD-MRP-101 N63-12414 06-10	BM-RI-6232 N63-17621 16-18
PROTON DAMAGE, ATMOSPHERIC CONTAMINATION, CHEMISTRY, ELECTRICITY, MECHANICS, METALLURGY AND CERAMICS, RADIO, SOLID STATE PHYSICS, AND SOUND CERAMICS, RADIO, SOLID STATE PHYSICS, AND SOUND	INORGANIC CHEMISTRY, THERMODYNAMICS, SOLID STATE PHYSICS, KINETICS, ELECTROCHEMISTRY, METALLURGY AND CERAMICS, MICROSTRUCTURE, AND REACTOR MATERIAL UCRL-10706 N63-17705 16-07
SALT BATH HEAT TRANSFER RATES FOR URANIUM PLATE - ANNEALING PROCESS TEMPERATURE DISTRIBUTIONS	HIGH PRESSURE AND HIGH TEMPERATURE METALLURGY WADD-TR-60-893, PT. III N63-17894 16-18
Y-1410 N63-12496 06-13	METALLURGY OF HOLYBDENUM AND ITS ALLOYS N63-18016 16-18
CELLULAR METALS - NEW CONCEPT FOR MAKING POROUS METALS N63-13141 07-18	ANNUAL REPORT. INDIAN INSTITUTE OF SCIENCE. 1961
METALLURGY - NUCLEAR RADIATION - OPTICS - ALLOYS - CRYSTALS N63-13191 07-01	TO 1962 - CHEMISTRY, PHYSICS, METALLURGY, PHARMACOLOGY, MATHEMATICS & ENGINEERING N63-18302 17-01
MATERIALS RGD - CHEMISTRY, BIOCHEMISTRY, MATERIALS SCIENCE, METALLURGY, AND SOLID STATE PHYSICS - NO3-13213 07-01	TUNGSTEN AND MOLYBDENUM METALLURGY AND METALLOGRAPHY NASA-TT-F-135 N63-18312 17-18
RADIOTRACER TECHNIQUE IN ELECTROMETALLURGICAL	METALLURGY RESEARCH - CHEMICAL AND PHYSICAL METALLURGY, REACTOR METAL RESEARCH AND MATERIAL
BM-RI-6195 N63-13311 07-18	ENGINEERING HM-77052 N63-18684 17-18
CORROSION, METALLURGY, AND RADIATION EFFECTS OF MATERIALS FOR NUCLEAR FUEL CLADDING	MECHANICAL PROPERTIES OF CARBON-NIOBIUM BASE
GEAP-4060 N63-13498 08-18	ALLOYS - METALLURGY WADC-TR-75-344, PT. VII N63-18779 18-18
FLOW AND FRACTURE OF INDUCTION ZONE-REFINED	METALLURGICAL STUDIES WITH ELECTRON MICROSCOPE -
TUNGSTEN Q-81973-2 N63-13529 08-17	PREPARATION OF THIN METAL FOILS BY MICROTOMY E-498-MC N63-19717 19-18
MATERIALS FOR STEAM TURBINES FTD-TT-62-1273/18264 N63-13583 08-18	CRACKING IN WELDING AGE HARDENABLE HIGH TEMPERATURE ALLOYS - METALLURGY
CLASSIFICATION OF ELECTROTHERMIC EQUIPMENT FOR HEAT TREATMENT OF METALS	ASD-TDR-63-601 N63-19887 19-17
JPRS-13459 N63-13819 09-17	METALLURGIC DEVELOPMENTS OF BERYLLIUM AND BERYLLIUM ALLOYS N63-20030 19-10
REACTOR METALLURGY RESEARCH — IRRADIATION DAMAGE, MATERIALS DEVELOPMENT FOR PLUTONIUM RECYCLE TEST REACTOR & MANFORD PRODUCTION REACTOR /N/	CRACK PROPAGATION - METALLURGY N63-20082 20-18
NN-76228 N63-13954 09-23 NETALLURGICAL RESEARCH - RARE EARTH, HAFNIUM,	BASIC MECHANISMS OF CRACK PROPAGATION - METALLURGY N63-20083 20-18
THORIUM, AND REFRACTORY ALLOYS - SOLID-STATE DIFFUSION BONDING AND MELTING RESEARCH USBM-U-1001 M63-14294 10-18	FATIGUE CRACK BEHAVIOR - FATIGUE TEST STUDIES OF CRACK PROPAGATION AND GROWTH - METALLURGY
NUCLEAR PHYSICS, REACTORS, CHEMICAL ENGINEERING, METALLURGY, RADIATION & ENGINEERING - PROGRESS	M69-20090 20-14 STRESS GRADIENT INFLUENCE ON INITIATION AND
REPORT	PROPAGATION OF FATIGUE CRACKS - HETALLURGY

11-07

ENGINEERING ASPECTS OF FATIGUE CRACK PROPAGATION -METALLURGY N63-20093 20-18

METEORS AND MICROPULSATION IN EARTH MAGNETIC FIELD N63-16656 14-05

DENSITY DISTRIBUTION OF METEORS IN EARTH ORBIT

		19045 3537901	1
HIGH-STRENGTH STEEL METALLURGY	20-16	N63-14728	11-05
N63-20148 SOLID STATE PHYSICS - RADIATION DAMAGE, ELEC		METEOR RADAR OBSERVATIONS - ECHOES, AZIMUTH, ANTENNA ANGLES - JUNE 1962 N63-14729	
MICROSCOPY, IONIC CRYSTALS, X-RAY DIFFRACTION SPIN RESONANCE, AND RADIATION METALLURGY ORNL-3480 N63-20230	ON, 20-25	METEOR RADAR OBSERVATIONS - ECHOES, AZIMUTH, ANTENNA ANGLES - JULY 1962 N63-14730	
CHEMICAL ENGINEERING RESEARCH - METALLURGY, VOLATILITY, CALORIMETRY, REACTOR SAFETY, ENE		METEOR RADAR OBSERVATIONS - ECHOES, AZIMUTH, ANTENNA ANGLES - SEPT 1962 N63-14731	AND 11-05
CONVERSION, NUCLEAR CONSTANT DETERMINATION ANL-6648 N63-20681	20-18	METEOR DISTRIBUTION AROUND EARTH ORBIT N63-15042	11-21
METALLURGICAL RESEARCH OF TUNGSTEN AND ITS A N63-21015	ALLOYS 21-18	METEOR FLOW CHARACTERISTICS FROM OBSERVATION RADAR ECHOES FROM METEOR TRAILS	
METALLURGICAL EFFECT OF COMPOUNDS AND LUBRIC ON HIGH TEMPERATURE ALLOYS AT ELEVATED	CANTS	N63-15470	110001038
TEMPERATURES AND UNSTRESSED CONDITIONS A078 N63-21409	22-17	ASTRONOMY AND PHYSICS OF METEORS - RADIO ECH OBSERVATIONS AND SATELLITE MEASUREMENTS N63-16627	14-01
HIGH-PRESSURE HIGH-TEMPERATURE METALLIC ALLC ASD-TDR-63-90 N63-22040	22-18	METEORS AND RADAR OBSERVATIONS - RADIO WAVE SCATTERING N63-16628	14-05
METALLURGY - PHYSICS & CHEMISTRY OF REACTOR MATERIALS HW-77954 N63-22073	22-18	IONIZATION IN METEOR TRAILS - RADIO ECHO OBSERVATION N63-16629	14-05
BIBLIOGRAPHY OF MOLYBDENUM, NIOBIUM, AND MOLYBDENUM-NIOBIUM ALLOY METALLURGY	I-stay -	METEOR TRAILS - IONIZATION AND RADIO ECHO OBSERVATION N63-16630	14-05
T1D-3572 N63-22220		METEOR VISUAL TRACKING AND RADAR ECHDES	eccing.
PYROMETALLURGICAL PROCESSES - FISSIONABLE MA RECOVERED BY CHEMICAL ENGINEERING METHODS ANL-6766 N63-23571		N63-16631 METEOR MASS DISTRIBUTION MEASUREMENTS BY RAD	
METASTABLE ATOM MEASUREMENTS OF LIFETIMES, EXCITATION FUNCTI DENSITIES, CROSS SECTIONS, AND POLARIZATION		ECHOES N63-16632 METEOR PATROL FACILITY IN CANADA USING RADAR TO COUNT METEORS N63-16633	14-05 ECHO 14-05
OF THE METASTABLE STATE OF THE NEON ATOM UCRL-10477 N63-10504		RADAR SYSTEM - RADIO ECHO OBSERVATION OF MET N63-16634	TEORS
RADIATIVE DECAY OF METASTABLE ARGON ATOMS IN DENSITY ARGON PLASMA STREAM AEDC-TDR-63-5 N63-11973	N LOW- 05-24	METEORS - RADIO ECHO OBSERVATION IN INTERNAT GEOPHYSICAL YEAR N63-16635	IONAL
AFTERGLOW ATOMIC COLLISION PROCESSES - GAS IONIZATION, ELECTRONS, METASTABLE IONS	TILE	ORBITS OF METEOR STREAMS DETERMINED BY RADIO TECHNIQUES N63-16636)-ECHO 14-05
APP-3 N63-20780	21-23	MICROMETEORITE PARTICLES FROM SOUNDING ROCKE N63-16637	T 14-29
SA SPORADIC METEOR CF ASTEROID		METEOR SPECTRA - LUMINOSITY N63-16642	14-05
CF METEORITE CF METEOROID SIMULATION OF LUNAR LUMINESCENCE - ULTRAVIOL		METEOR SPECTRA - WAVELENGTH - PHOTOGRAPHS N63-16643	14-05
PROTON EXCITATION OF TEKTITE & METEORIC MATE AFCRL-62-1099 N63-11017		SPECTRAL ANALYSIS OF METEORS WITH LOW DISPER	RSION 14-05
METEOR RADAR OBSERVATIONS, JUNE 1961 N63-11279	03-05		14-05
METEOR RADAR OBSERVATIONS, JULY 1961 N63-11280	03-05	METEOR SPECTROPHOTOMETRY - METEOR TRAIL - SP AND LUMINOSITY N63-16646	PECTRUM 14-05
ELECTRON DISTRIBUTION OVER THE RADIUS OF A M TRAIL N63-11525	4ETEOR 03-05	METEORS - AURORAL EMISSION - SPECTRAL LINE N63-16647	14-12
LOGICAL UNITS IN METEORIC RADAR - PULSES, SI LIFETIME, AND NOISE N63-11526		METEOR TRAILS - LUMINOSITY - IONIZATION - EL ION RECOMBINATION N63-16648	ECTRON 14-05
SOLAR ORIGIN OF ATMOSPHERIC AND METEORIC XEN DETERMINED BY ISOTOPIC ANALYSIS		LUMINOSITY OF IRON AND STONY METEORITES - ME N63-16650	TEORS 14-05
NASA-TN-D-1685 N63-12595 ANNUAL AND DIURNAL VARIATION OF METEOR RATES	06-29 IN	METEOR IONIZATION AND MASS OF METEOROIDS - A COLLISIONS N63-16651	TOMIC 14-05
SOUTHERN HEMISPHERE AFCRL-62-324 N63-12641	06-29	STATISTICS OF METEORS N63-16652	14-05
MAGNETIC FIELDS - INTERPLANETARY, PLANETARY, STELLAR, METEORIC AND GEOMAGNETISM RM-3523-MASA N63-13990	THAT I THAT	METEOR PHOTOGRAPHY AND VISUAL OBSERVATION N63-16653	
RADAR OBSERVATION OF METEORS - DATA ON HOURL		IMAGE ORTHICON PHOTOGRAPHS OF METEORS N63-16654	14-05
ECHO DURATION AND DUTY CYCLE, SEPT 1961 N63-14727	11-05	METEORS AND MICROPULSATION IN EARTH MAGNETIC	FIELD

RADAR OBSERVATION OF METEORS - DATA ON HOURLY RATE ECHO DURATION AND DUTY CYCLE, DEC 1961

11-05 AND 11-05 AND 11-05 AND 11-05

11-21 DF 12-05

14-01 14-05 14-05 4-05 4-05 4-05 СНО 4-05 RS 4-05 NAL 4-05 CH0 4-05 4-29 4-05 4-05 ON 4-05 4-05 TRUM 4-05 4-12 TRON 4-05 ORS 4-05 MIC 4-05 4-05 4-05 -05 ELD -05

SUBJECT INDEX		
	N63-16657	14-12
METEOR TRAJECTORIES IN ATMOSPHER	E	
	N63-16658	14-29
METEOR STATISTICS - ORBITAL ELEM	ENTS N63-16659	14-05
PHOTOGRAPHS AND ORBITAL ELEMENTS	OF METEORS N63-16660	14-05
DELTA-AQUARID METEOR STREAM	N63-16661	14-05
MASS LOSS OF GIACOBINI-ZINNER CO METEOR SYSTEM	MET AND DRACE	ONID 14-05
EFFECT OF PLANETARY PERTURBATION EVOLUTION OF METEORS - STUDY OF ORIONID STREAMS		14-29
COMETARY NATURE OF TUNGUSK METEO	RITES N63-16664	14-05
ABSOLUTE MAGNITUDE TABLES FOR SM DEVELOPING AIR CAP - LUMINOUS EF	ALL METEORS	
The state of the s	N63-20932	21-05
METEOR TRAIL MEASUREMENTS - HEIG NOMINAL DENSITY, MAGNITUDE, FRAG NASA-CR-51366	HT, DECELERA MENTATION, & N63-21432	MASS 22-12
INFLUX OF OBJECTS INTO EARTH ATM	OSPHERE - ME	TEOR
POPULATION NASA-CR-51365	N63-21433	22-05
METEOR VELOCITY MEASUREMENTS BY	USE OF	
MULTISTATION RADAR SYSTEM NASA-CR-51346	N63-21646	22-29
INTERNAL & EXTERNAL INTERFERENCE PHOTOELECTRIC OBSERVATIONS OF ME FID-TT-62-1428/,62		24-05
ETEOR BURST		
FINE STRUCTURE OF METEOR-BURST S WITH HIGH SPEED MAGNETIC TAPES	IGNALS RECOR	DED
TM-36	N63-14005	09-08
TEEDR HAZARD USE OF MAGNETIC AND SDLAR ENERGY FROM METEORS, BASED ON TSANDERS AID-62-179	, AND PROTEC SPACE FLIGHT N63-10408	TION WORK 01-29
ETEOR SHOWER RADAR-ECHO OBSERVATION OF QUANDR SHOWER	ANTID METEOR N63-15736	12-05
RANGE DISTRIBUTION OF RADAR-ECHO		
METEORS	N63-23120	24-05
AFCRL-63-733 ETEORITE SA BRUDERHEIN METEORITE	N63-23120	Applied A
SA BRUDERHEIN METEORITE SA CARBONACEOUS METEORITE SA IRON METEORITE SA MICRONETEORITE SA MURRAY METEORITE		
SA TUNGUSK METEORITE		
F ELEMENT ABUNDANCE	PAGE NATIONAL NOTES	
THE EFFECT ON THE LUNAR ORBIT OF		
	N63-10143	
METEORITES - ORIGIN AND DISTRIBU	TION	
LIFE IN THE SOLAR SYSTEM - PRESE		02-29
CHLORINE AND ARGON ISOTOPES IN M		
TERRESTRIAL AGE OF IRON METEORIT	ES N63-11016	03-12
AFCRL-62-1092	Guide with Street and	
SYSTEMATIZING TEXTITE DATA USING	HANUAL CARD	SURT,

	WALL STREET	NEEL DOWN
METEORITIC APPLICATION		
NASA-TT-F-114	N63-11612	04-20
IMPACTS ON THE EARTH AND HOON - AND ASTEROIDS	N63-12071	05-05
LIVING ORGANISMS OBTAINED FROM M SAMPLE - USSR SPACE PROGRAM JPRS-17326	ETEORITE	
METEORITE ANALYSIS FOR GAMMA RAY BY SCINTILLATION COUNTER LA-2765	A Valled BOX	128
MEASUREMENT OF PARTICLE DAMAGE T	NO SHOPPERSON	964 F#8-03
ABUNDANCES OF THE FOURTEEN RARE PLUS YTTRIUM AND SCANDIUM IN MET	EARTH ELEMEN	THU 8.77
FRAGMENTS EJECTED FROM LUNAR SUR IMPACT ANALYZED ON BASIS OF STUD HYPERVELOCITY IMPACT IN ROCK AND	FACE BY METE TES OF SAND N63-14587	0R01D
BIOCHEMISTRY - PHOTÓSYNTHESIS, A CHLDROPLAST, SPECTROPHOTOMETRY, UCRL-10634	MING ACIDS.	
METEORITE COMPOSITION - ISOTOPES ABUNDANCE IN SPACE	6 ELEMENT N63-15292	12-29
NETWORK OF ASTROPHYSICAL METEORI	TE OBSERVATO	
ELECTROMAGNETIC PARAMETERS OF ME TEKTITES, GLASSES, AND ROCKS		13-05
RARE GASES IN SUN, ATMOSPHERE, A	ND METEORITE N63-16224	
ROCKET AND SATELLITE MEASUREMENT	S OF METEORI N63-16640	
SATELLITE MEASUREMENT OF METEORI	TIC COSMIC D	
PHOTOGRAPHIC TRACKING OF METEORI	TE TRAJECTOR N63-16649	1ES 14-05
RARE EARTH, YTTRIUM, AND SCANDIG	ロンベー 研修工業の方式	IN
ABUNDANCE OF RARE-EARTH ELEMENTS YTTRIUM IN SOLAR SYSTEM - METEOF EARTH CRUST	S. SCANDIUM,	AND
GA-3859	SECHEA-MOT	
COSMIC RAY INDUCED STABLE AND RAIN METEORITES NASA-TN-D-1844	N63-17550	
NOBLE GAS ABUNDANCE IN EARTH AT		
METEORITES NASA-CR-50315	CHIT JATESTA	1250k
METEOROLOGICAL PROBE - MICROMETE DAMAGES CAUSED BY PARTICLE IMPAGE	OROID - METE	ORITIC 17-15
LITHIUM AND BERYLLIUM ABUNDANCE SOLAR ATMOSPHERE	STARTER DAY	1 88.0-
METEORIC DUST FALLOUT FROM IRON AFCRL-63-824	METEORITES	ASAIT
RADIOACTIVE DATING OF GEOLOGICAL	1847 - 235019	
NY0-3943 NY0-3943 NY0-3943	N63-20035	19-12
BIOGEOCHEMISTRY OF SULFUR ISOTO METEORITES, MARINE SEDIMENT, SE SULFUR FRACTIONATION BY ANAEROB	A AND LAKE WA	TERS -
ORIGIN OF METEORITIC CHONDRULES	- IGNIMBRITI	C

METEORITIC CRATER SA FOSSIL METEORITE CRATER LUNAR GEOLOGY — STRATIGRAPHY, METEORITIC CRATERS ALAA PAPER-63-254 No3-18343 17-05 EXTRATERRESTRIAL RESEARCH — BIBLIOGRAPHY — ASTROBIOLOGY, STRANOMY, COSMOLOGY, LUNAR TRAJECTORIES, AND METEORITIC CRATERING AMFL-RTD-TOR-63-3025 No3-18921 18-29 FORMATION OF CRATERS IN THE LUNAR SURFACE BY METEOROID SA MICROMETEOROID CF METEOR CF METEOROID ARTIFICIAL METEOROID — TYPE 304 STAINLESS STEEL PROJECTILE FROM A SOUNDING ROCKET AT HYPERVELOCITY AFORLO-2-803 ABSOLUTE LUMINOSITY, SIZE, AND VELOCITY OF LABORATORY MICROMETEORS FROM HYPERVELOCITY OF LABORATORY MICROMETEOR OF LABORATORY MICROMETEOR OF LABORATORY MICROMETEOR OF L	MPACT 14-05 19-29 20-29 8 FUDY 22-29 24-29 424-29 41CLE 24-29 0F 21-21
SA FOSSIL METEORITE CRATER LUMAN GEOLOGY - STRATIGRAPHY, METEORITIC CRATERS AIAA PAPER-63-254 EXTRATERRESTRIAL RESEARCH - BIBLIOGRAPHY - ASTROBIOLOGY, ASTROHOMY, COSMOLOGY, LUMAR TRAJECTORIES, AND METEORITIC CRATERING AMFL-RTD-TOR-63-3025 FORMATION OF CRATERS IN THE LUNAR SURFACE BY METEOROID SA MICROMETEOROID CF METEOR ARS PAPER-2543-62 ARTIFICIAL METEOROID - TYPE 304 STAINLESS STEEL PROJECTILE HEROM A SOUNDING ROCKET AT HYPERVELOCITY AFCRL-62-803 ABSOLUTE LUMINOSITY, SIZE, AND VELOCITY OF LABORATORY HICROMETEORS FROM HYPERVELOCITY OF ARSOLUTE LUMINOSITY, SIZE, AND VELOCITY OF LABORATORY HICROMETEORS FROM HYPERVELOCITY OF ARTIFICIAL METEOR BSD-TDR-62-270 SURVEY OF METEOROID PROPERTY AND DISTRIBUTION DATA RELEVANT TO SYSTEM FOR NUCLEAR AUXILIARY POWER 8 REACTOR AND SHIELD DESIGN NAA-SR-8127 ALUMINUM METEOROID BUMPERS - IMPACT TESTS NASA-TN-D-1784 PRINCIPLES OF METEOROID PROTECTION - SUMMARY OF METEOROIG HAZARD TO SPACE VEHICLES SID-62-519 METEOROID FOUR - NASA-CR-50783 METEOROID HAZARD TO SPACE VEHICLES SID-62-519 METEOROID FOUR - NASA-CR-50783 METEOROID HAZARD TO SPACE VEHICLES SID-62-519 METEOROID	20-29 & TUDY 20-29 & TUDY 22-29 24-29 AICLE 24-29 DF 21-21
EXTRATERRESTRIAL RESEARCH — BIBLIOGRAPHY — ASTROBIOLOGY, ASTRONOMY, COSMOLOGY, LUNAR TRAJECTORIES, AND METEORITIC CRATERING AMFL—RTD—TDR—63—3025 No3—18778 18—29 FORMATION OF CRATERS IN THE LUNAR SURFACE BY METEOROID SA MICROMETEOROID GF METEOR METEOROID ARTIFICIAL METEOROID — TYPE 304 STAINLESS STEEL PROJECTILE FROM A SOUNDING ROCKET AT HYPERVELOCITY AFCRL—62—803 No3—14300 10—29 ABSOLUTE LUMINOSITY, SIZE, AND VELOCITY OF LABORATORY MICROMETEORS FROM HYPERVELOCITY IMPACT OF ARTIFICIAL METEOR BSD—TDR—62—270 No3—14304 10—29 SURVEY OF METEOROID PROPERTY AND DISTRIBUTION DATA RELEVANT TO SYSTEM FOR NUCLEAR AUXILITARY POWER 8 REACTOR AND SHIELD DESIGN NA3—15415 12—32 ALUMINUM METEOROID BUMPERS — IMPACT TESTS NASA—TN—D—1784 No3—15772 13—18 PRINCIPLES OF METEOROID PROPECTION — SUMMARY OF METEOROID HAZARD TO SPACE VEHICLES SID—62—519 METEOROID HAZARD TO SPACE EXPLORATION OF NG3—2214 METEOROID HAZARD TO SPACE EXPLORATION OF NG3—22126 METEOROID HAZARD TO NASA—CR—5059—53 METEOROID HAZARD TO SPACE EXPLORATION OF NG3—22126 METEOROID HAZARD TO SPACE EXPLORATION OF NG3—23126 METEOROID HAZARD TO SPACE EXPLORATION OF NG3—23126 METEOROID HAZARD TO NASA—CR—5059—53 METEOROID HAZARD TO SPACE EXP	20-29 8 FUDY 22-29 24-29 4 24-29 HICLE 24-29 DF 21-21
TRAJECTORIES, AND METEORITIC CRATERING AMFL-RTD-TDR-63-3025 N63-1878 18-29 FORMATION OF CRATERS IN THE LUNAR SURFACE BY METEOROID SA MICROMETEOROID SA MICROMETEOROID CF METEOROID PROTECTION FOR SPACE RADIATORS ARS PAPER-2543-62 N63-10265 01-06 ARTIFICIAL METEOROID - TYPE 304 STAINLESS STELL PROJECTILE FROM A SOUNDING ROCKET AT HYPERVELOCITY AFCEL-62-803 N63-14180 09-12 ABSOLUTE LUMINOSITY, SIZE, AND VELOCITY OF LABORATORY MICROMETEORS FROM HYPERVELOCITY IMPACT OF ARTIFICIAL METEOR BSD-TDR-62-270 N63-14304 10-29 SURVEY OF METEOROID PROPERTY AND DISTRIBUTION DATA RELEVANT TO SYSTEM FOR NUCLEAR AUXILIARY POWER 8 REACTOR AND SHIELD DESIGN NAA-SR-0327 N63-15415 12-32 ALUMINUM METEOROID BUMPERS - IMPACT TESTS NASA-TN-D-1784 N63-15772 13-18 PRINCIPLES OF METEOROID PROTECTION - SUMMARY OF METEOROID ENVIRONMENT OF PROJECT APOLLO NASA-CR-50783 METEOROID ENVIRONMENT OF PROJECT APOLLO NASA-CR-50783 METEOROID FLUX - NATURE AND DISTRIBUTION OF MICROMETEOROID MODEL FOR METEOROID HAZARD S IN SPACE EXPLORATION NASA-TN-D-1839 N63-223124 METEOROID HAZARD SIN SPACE EXPLORATION NASA-TN-D-1839 N63-23124 METEOROID HAZARD TO NUCLEAR ROCKET SPACE VEI	24-29 4 24-29 4 24-29 4 24-29 6 24-29 6 21-21
METEOROID SA MICROMETEOROID METEOROID MASA—TN—O—1839 METEOROID MASA—TN—O—1839 METEOROID MASA—TN—O—1839 METEOROID METEOROID METEOROID METEOROID MASA—TN—O—1839 METEOROID MASA—TN—O—1839 METEOROID METEOROID METEOROID METEOROID METEOROID METEOROID METEOROID METEOROID MASA—TN—O—1839 METEOROID METEOROID METEOROID METEOROID METEOROID METEOROID METEOROID METEOROID MASA—TN—O—1839 METEOROID MASA—TN—O—1839 METEOROID MASA—TN—O—1839 METEOROID METEOROID	24-29 42-29 124-29 124-29 141-21 24-29 24-29
METEOROID SA MICROMETEOROID CF METEOR METEOROID PROTECTION FOR SPACE RADIATORS ARS PAPER-2543-62 ARTIFICIAL METEOROID - TYPE 304 STAINLESS STEEL PROJECTILE FROM A SOUNDING ROCKET AT HYPERVELOCITY AFCRL-62-803 ABSOLUTE LUMINOSITY, SIZE, AND VELOCITY OF LABORATORY MICROMETEORS FROM HYPERVELOCITY IMPACT OF ARTIFICIAL METEOR BSD-TDR-62-270 SURVEY OF METEOROID PROPERTY AND DISTRIBUTION DATA RELEVANT TO SYSTEM FOR NUCLEAR AUXILITARY POWER 8 REACTOR AND SHIELD DESIGN NA3-15415 ALUMINUM METEOROID BUMPERS - IMPACT TESTS NASA-TN-D-1784 METEOROID HAZARDS IN SPACE EXPLORATION NASA-TN-D-1839 METEOROID HAZARD SIN SPACE EXPLORATION NASA-TN-D-1839 METEOROID HAZARD SIN SPACE EXPLORATION NASA-TN-D-1839 METEOROID HAZARDS IN SPACE EXPLORATION NASA-TN-D-1839 METEOROID HAZARD STOR NASA-TN-D-1839 METEOROID HAZARD TO NUCLEAR ROCKET SPACE VERENA-167 METEOROID HAZARD TO NUCLEAR ROCKET SPACE VERENA-167 METEOROID HAZARD TO NUCLEAR ROCKET SPACE V	24-29 1 24-29 HICLE 24-29 DF 21-21
CF METEOR METEOROID PROTECTION FOR SPACE RADIATORS ARS PAPER-2343-62 ARTIFICIAL METEOROID - TYPE 304 STAINLESS STEEL PROJECTILE FROM A SOUNDING ROCKET AT HYPERVELOCITY AFCRL-62-803 ARSOLUTE LUMINOSITY, SIZE, AND VELOCITY OF LABORATORY MICROMETEORS FROM HYPERVELOCITY IMPACT OF ARTIFICIAL METEOR BSD-TDR-62-270 SURVEY OF METEOROID PROPERTY AND DISTRIBUTION DATA RELEVANT TO SYSTEM FOR NUCLEAR AUXILITARY POWER 8 REACTOR AND SHIELD DESIGN NASA-TN-D-1839 NASA-TN-D-1839 NASA-TN-D-1839 METEOROID HAZARD EFFECT ON SPACECRAFT DESIGN N63-23128 METEOROID HAZARD TO NUCLEAR ROCKET SPACE VEH MISSIONS LMSC-A303606 N63-23694 METEOROLOGICAL FLIGHT MESSIONS LMSC-A303606 N63-2328 METEOROID HAZARD TO NUCLEAR ROCKET SPACE VEH MISSIONS LMSC-A303606 N63-23128 METEOROID HAZARD TO NUCLEAR ROCKET SPACE VEH METEOROLOGICAL FLIGHT METEOROLOGICAL FLIGHT METEOROLOGICAL FLIGHT MESSIONS LMSC-A303606 N63-2328 METEOROID HAZARD TO NUCLEAR ROCKET SPACE VEH METEOROLOGICAL FLIGHT METEOROLOGICAL FLIGH	24-29 HICLE 24-29 OF 21-21
ARS PAPER-2543-62 ARTIFICIAL METEOROID - TYPE 304 STAINLESS STEEL PROJECTILE FROM A SOUNDING ROCKET AT HYPERVELOCITY AFCR-62-803 ABSOLUTE LUMINOSITY, SIZE, AND VELOCITY OF LABORATORY MICROMETEORS FROM HYPERVELOCITY IMPACT OF ARTIFICIAL METEOR BD-TDR-62-270 SURVEY OF METEOROID PROPERTY AND DISTRIBUTION DATA RELEVANT TO SYSTEM FOR NUCLEAR AUXILIARY POWER 8 REACTOR AND SHIELD DESIGN N63-15415 NAA-SR-8127 ALUMINUM METEOROID BUMPERS - IMPACT TESTS NASA-TN-D-1784 PRINCIPLES OF METEOROID PROTECTION - SUMMARY OF METEOROID HAZARD EFFECT ON SPACECRAFT DESIGE FRR AM-167 METEOROID HAZARD TO NUCLEAR ROCKET SPACE VEINTSSIONS LMSC-A303606 N63-23128 METEOROID HAZARD TO NUCLEAR ROCKET SPACE VEINTSSIONS LMSC-A303606 N63-23694 METEOROID HAZARD TO NUCLEAR ROCKET SPACE VEINTSSIONS LMSC-A303606 N63-23128 METEOROID HAZARD TO NUCLEAR ROCKET SPACE VEINTSSIONS LMSC-A303606 N63-23694 METEOROID HAZARD TO NUCLEAR ROCKET SPACE VEINTSSIONS LMSC-A303606 N63-23694 METEOROID HAZARD TO NUCLEAR ROCKET SPACE VEINTSSIONS LMSC-A303606 N63-23694 METEOROID HAZARD TO NUCLEAR ROCKET SPACE VEINTSSIONS LMSC-A303606 N63-23694 METEOROID HAZARD TO NUCLEAR ROCKET SPACE VEINTSSIONS LMSC-A303606 N63-22694 METEOROID HAZARD TO NUCLEAR ROCKET SPACE VEINTSSIONS LMSC-A303606 N63-22694 METEOROID HAZARD TO NUCLEAR ROCKET SPACE VEINTSSIONS LMSC-A303606 N63-22694 METEOROID HAZARD TO NUCLEAR ROCKET SPACE VEINTSSIONS LMSC-A303606 N63-22694 METEOROID HAZARD TO NUCLEAR ROCKET SPACE VEINTSSIONS LMSC-A303606 N63-22694 METEOROID HAZARD TO NUCLEAR ROCKET SPACE VEINTSSIONS LMSC-A303606 N63-22694 METEOROID HAZARD TO NUCLEAR ROCKET SPACE VEINTSSIONS LMSC-A303606 N63-22694 METEOROID HAZARD TO NUCLEAR ROCKET SPACE VEINTSSIONS LMSC-A303606 N63-22694 METEOROID HAZARD TO NUCLEAR ROCKET SPACE VEINTSSIONS LMSC-A303606 N63-22694 METEOROID HAZARD TO NUCLEAR ROCKET SPACE VEINTSSIONS LMSC-A303606 N63-22694 METEOROID HAZARD TO NUCLEAR ROCKET SPACE VEINTSSIONS LMSC-A303606 N63-22694 METEOROID HAZARD TO NUCLEAR ROCKET SPACE VEINTSSIONS LMSC-A303606 N	24-29 HICLE 24-29 OF 21-21
PROJECTILE FROM A SOUNDING ROCKET AT HYPERVELOCITY AFCRL-62-803 ABSOLUTE LUMINOSITY, SIZE, AND VELOCITY OF LABORATORY MICROMETEORS FROM HYPERVELOCITY IMPACT OF ARTIFICIAL METEOR BSD-TDR-62-270 SURVEY OF METEOROID PROPERTY AND DISTRIBUTION DATA RELEVANT TO SYSTEM FOR NUCLEAR AUXILITARY POWER 8 REACTOR AND SHIELD DESIGN NAS-R-8127 ALUMINUM METEOROID BUMPERS - IMPACT TESTS NASA-TN-D-1784 PRINCIPLES OF METEOROID PROTECTION - SUMMARY OF METEOROID HAZARD TO NUCLEAR ROCKET SPACE VEI MESSIONS LMSC-A303606 METEOROIG LA FLIGHT METEOROLOGICAL F	24-29 OF 21-21
ABSOLUTE LUMINOSITY, SIZE, AND VELOCITY OF LABORATORY MICROMETEORS FROM HYPERVELOCITY IMPACT OF ARTIFICIAL METEOR BSD-TDR-62-270 N63-14304 10-29 SURVEY OF METEOROID PROPERTY AND DISTRIBUTION DATA RELEVANT TO SYSTEM FOR NUCLEAR AUXILIARY POWER 8 REACTOR AND SHIELD DESIGN NAA-SR-8127 ALUMINUM METEOROID BUMPERS - IMPACT TESTS NASA-TN-D-1784 PRINCIPLES OF METEOROID PROTECTION - SUMMARY OF METEOROLOGICAL FLIGHT M	21-21 RIC
LABORATORY MICROMETEORS FROM HYPERVELOCITY IMPACT OF ARTIFICIAL METEOR BSD-TDR-62-270 SURVEY OF METEOROID PROPERTY AND DISTRIBUTION DATA RELEVANT TO SYSTEM FOR NUCLEAR AUXILIARY POWER 8 REACTOR AND SHIELD DESIGN NAA-SR-8127 ALUMINUM METEOROID BUMPERS - IMPACT TESTS NASA-TN-D-1784 PRINCIPLES OF METEOROID PROTECTION - SUMMARY OF METEOROLOGICAL FLIGHT METEOROLOGICAL FLIG	21-21 RIC
SURVEY OF METEOROID PROPERTY AND DISTRIBUTION DATA RELEVANT TO SYSTEM FOR NUCLEAR AUXILIARY POWER 8 REACTOR AND SHIELD DESIGN NASA-R-0127 ALUMINUM METEOROID BUMPERS - IMPACT TESTS NASA-TN-D-1784 PRINCIPLES OF METEOROID PROTECTION - SUMMARY OF REPDA-61 N63-21208 SOUTH ALPINE WINDS - METEOROLOGICAL FLIGHT MEASUREMENTS OF HEAT CONVECTION AND ATMOSPHI ELECTRICITY FFM-57 N63-22248 METEOROLOGICAL INSTRUMENT CF ANEMOMETER CF METEOROLOGY	RIC
SURVEY OF METEOROID PROPERTY AND DISTRIBUTION DATA RELEVANT TO SYSTEM FOR NUCLEAR AUXILIARY POWER 8 REACTOR AND SHIELD DESIGN NAA-SR-8127 ALUMINUM METEOROID BUMPERS - IMPACT TESTS NASA-TN-D-1784 PRINCIPLES OF METEOROID PROTECTION - SUMMARY OF SOUTH ALPINE WINDS - METEOROLOGICAL FLIGHT MEASUREMENTS OF HEAT CONVECTION AND ATMOSPHI ELECTRICITY FFM-57 N63-22248 METEOROLOGICAL INSTRUMENT CF ANEMOMETER CF METEOROLOGY	
ALUMINUM METEOROID BUMPERS - IMPACT TESTS NASA-TN-D-1784 N63-15772 13-18 METEOROLOGICAL INSTRUMENT CF AMEMOMETER PRINCIPLES OF METEOROID PROTECTION - SUMMARY OF CF METEOROLOGY	23-04
ALUMINUM METEOROID BUMPERS - IMPACT TESTS NASA-TN-D-1784 N63-15772 13-18 METEOROLOGICAL INSTRUMENT CF ANEMOMETER PRINCIPLES OF METEOROID PROTECTION - SUMMARY OF CF METEOROLOGY	25-04
PRINCIPLES OF METEOROID PROTECTION - SUMMARY OF CF METEOROLOGY	
A662-0413 N63-16028 13-34 GONIC ANEMOMETER FOR STUDY OF TURBULENT WINI	
METEOROID SURFACE EROSION BY COSMIC RADIATION AFCRL-62-1064 N63-11860	04-15
N63-16655 14-29	
SELF SEALING SPACECRAFT STRUCTURES IN METEOROID SELF SEALING SPACECRAFT STRUCTURES IN METEOROID ENVIRONMENT THERMOELECTRIC COOLED, MIRROR TYPE DEMPOINT HYGOMETER FOR HIGH ALTITUDE APPLICATIONS BENDIX RLD-2055 N63-11877	04-15
NASA-CR-50000 N63-18867 18-34 INFRARED FLUX & SURFACE TEMPERATURE DETERMINATION OF THE PROPERTY OF THE PROPERT	ATIONS
OPTIMUM ENVIRONMENTAL PROTECTION AGAINST METEOROID FROM TIROS RADIOMETER MEASUREMENTS PENETRATION MSL-10 MSL-10 N63-11881	04-21
NASA-CR-50899 N63-20316 20-16 ROCKETSONDE INSTRUMENT PACKAGE FOR HIGH ALT	TUDE
SPACE ENVIRONMENT - IONIZING PARTICLE RADIATION, METEOROLOGICAL SOUNDING ELECTROMAGNETIC RADIATION, EXOSPHERE AND AFCRL-62-875 N63-11954 METEOROLD ENVIRONMENT	05-15
RTD-TDR-63-1050; VOL. 2 N63-21000 21-12 DETERMINATION OF UPPER ATMOSPHERE DENSITY FF CHANGES IN SATELLITE ORBITS AND METEOROLOGIC	
ACTIVE METEOROID SHIELDING FOR SPACE VEHICLES ASD-TDR-63-537 N63-21437 22-29 RAE-TRANS-1027 N63-16024	13-32
METEOROID SATELLITE, EXPLORER XVI, DATA TRANSMISSION & RESULTS N63-23359 24-32 MIND ERRORS FROM SALTON SEA METEOROLOGICAL INSTRUMENT TESTS	14.21
METEOROID HAZARD AFCRL-63-463 N63-16347	14-21
ALKALI METAL TMO-PHASE HEAT TRANSFER FOR SPACE MEASUREMENT RANGE OF METEOROLOGICAL INSTRUME POWER SYSTEMS ARS PAPER-2547-62 N63-10267 01-06 AFCRL-62-825 N63-18076	100
n trace that the state of the s	1724 13
THE METEOROID HAZARD AND PROPOSAL FOR ACCELERATING PARTICLES N63-10914 O2-30 METEOROLOGICAL TELEMETERING 'DEVICES RSIC-59 N63-21685	22-21
METEOROID HAZARD TO SPACECRAFT IN ORBIT NEAR THE	
EARTH METEOROLOGICAL PROBE — MICROMETEOROID — METEOROLOGICAL PROBE — MICROMETEOROLOGICAL PROBE — MICROMETEOROL	ORITIC
ENVIRONMENTAL PROBLEMS OF SPACE FLIGHT N63-18446	17-15
STRUCTURES - PART II, METEOROID HAZARDS NASA-TN-D-1493 N63-11986 05-30 ARCTIC METEOROLOGY PHOTO PROBE - POLARIZED S	IGHT
EXPERIMENT FOR CLOUD COVER PHOTOGRAPHS	131
HAZARD TO SPACE VEHICLE	18-21
NSL-62-132-2 N63-13519 08-34 METEOROLOGICAL ROCKET	
METEOROIDS AS POSSIBLE HAZARD TO SPACE VEHICLE SA NIKE APACHE ROCKET	
OPERATIONS - BIBLIOGRAPHY SA NIKE CAJUN ROCKET	
SA NIKE ROCKET	

14-05 PACT T 14-05

19-29 0-29

Y 2-29

4-29 4-29 LE 4-29

1-21

3-04

-15

-15 ONS -21 E -15

-32

-21

-15

-21 IC 15

21

CF SOUNDING ROCKET METEOROLOGICAL ROCKET NETWORK WIND	1.4	1.4	BIBLIOGRAPHY FFM-55	N63-14351	10-32
DATA - WINTER 1961-1962	3-14223	09-21	CONFERENCE ON SFERICS MEASU	THE RESERVE OF THE PERSON NAMED IN	
METEOROLIGICAL ROCKETS AND SATELLITE	ES -	344	19-20-1-11-13-13-13-1	N63-15516	12-32
BIBLIOGRAPHY FFM-55 N63	3-14351	10-32	SCIENTIFIC SATELLITES - BIB INSTRUMENTATION, METEOROLOG PROPERTIES OF THE IONOSPHER	ICAL SATELLITES,	AND
MODEL OF ANNUAL TEMPERATURE VARIATION 60-DEG NORTH BETWEEN 30 AND 50-KM IN			AD-290800	N63-16247	13-32
FROM METEOROLOGICAL ROCKET DATA RM-3564-PR N6:	3-14378	10-21	SPACE EXPLORATION - METEORO COMMUNICATION SATELLITES - PROJECT		15-01
ASYMPTOTIC ERROR CODING FOR BINARY S CHANNEL WITH FEEDBACK			RAINFALL DETERMINATIONS BY	WEATHER RADAR ON	398
A STATE OF THE STA	3-18274	17-20	METEOROLOGICAL SATELLITE NASA-CR-50193	N63-17335	15-21
STRATOSPHERIC CIRCULATION DATA DERI METEOROLOGICAL ROCKET FIRINGS OVER U DURING MINTER OF 1961 - TIROS II RAI NASA-TN-D-1755 N6:	UNITED ST	ATES DATA 17-21	ATMOSPHERIC RADIATION - INT RADIATION MEASUREMENTS FROM SATELLITES		17-21
METEOROLOGICAL ROCKET FIRING DATA SI TEMPERATURE & WIND SENSOR INSTRUMEN IRIG-MWG-19-63	HEETS - TATION SY 3-21473		COMMUNICATION, METEOROLOGIC APPLICATIONS SATELLITES - N		21-08
CIRCULATION DISTURBANCES IN MESOSPHI			METEOROLOGICAL SATELLITE IN PHYSICAL MEASUREMENTS NASA-RP-29	- Contract Contract	22-29
ROCKET NETWORK ERDA-76 N6:	3-23566	24-09	WEATHER SATELLITE SPECTROME	CONTRACTOR AND A PRINCIPAL OF STREET	100
METEOROLOGICAL SATELLITE SA NIMBUS SATELLITE			ELECTRO-OPTICAL INSTRUMENTA BEC-4696		
SA TIROS SATELLITE SA TIROS I SATELLITE SA TIROS II SATELLITE		1142 1144	ATMOSPHERIC COMPOSITION & S METEOROLOGICAL RESEARCH USI NASA-TT-F-115		22-21
SA TIROS V SATELLITE SA TIROS VII SATELLITE LABORATORY IN SPACE, METEOROLOGICAL	SATELLIT		METEOROLOGICAL SATELLITES A	ND OPERATIONAL WE	EATHER
BIOLOGICAL EFFECTS, SPACE ENVIRONMENT		01-10	FORECASTING	N63-23438	
METEOROLOGICAL SATELLITES - CONGRES.	SIONAL HE 3-10890		AUTOMATIC PICTURE TRANSMISS CAMERA SYSTEM FOR METEOROLO NASA-TN-D-1915		NEAT
SPACE AND THE MEATHER - METEOROLOGIC SATELLITES - CONGRESSIONAL REPORT No.	CAL 3-11128	03-21	METEOROLOGICAL STATION OF WEATHER STATION OPERATION AND PERFORMANCE O	F CEDAR HILL	90.99
CONFERENCE ON PEACEFUL USE OF SPACE MERCURY, APOLLO, GEMINI PROJECTS, MI COMMUNICATION SATELLITES	ETEOROLOG		METEORGLOGICAL TOWER FACILI AFCRL-63-202 METEOROLOGY SA MICROMETEOROLOGY	N63-17195	
METEOROLOGICAL SATELLITES FOR WEATH			SA POLAR METEOROLOGY SA RADIO METEOROLOGY SA SYNOPTIC METEOROLOGY	HE DISCUSSION TO RECEIVE	
METEOROLOGICAL SATELLITES AND WEATH TIROS SATELLITE N6:			SA TROPICAL METEOROLOGY	PARTIE AND ACTOR	
NOTES ON THE COSMIC SPACE SYMPOSIUM		03-12	CF ATMOSPHERIC CONDITION EFFE CF ATMOSPHERIC ENERGETICS CF CLIMATOLOGY	CT Terarendas dungan	BAZE
DATA ACQUISITION FROM SPACECRAFT NASA-SP-16 N6	3-11506	03-20	CF HYDROLOGY CF METEOROLOGICAL INSTRUMENT CF MEATHER FOREGASTING	L-61-1001	055A
NASA AUTHORIZATION, 1963, METEOROLO COMMUNICATIONS SATELLITES, TRACKING	TOWNS AND		ANALYSES OF PACIFIC STORMS RADAR RECORDS AND SHORT-INT VOL V, JUNE 5 TO 7, 1961	ERVAL SERIAL ASCI	ENTS -
The state of the s	3-11662	04-08	AFCRL-62-469 AFFRATORIA ATMOSPHERIC MICROSTRUCTURE	DESCRIPTION OF THE	
COMPARISON OF ATMOSPHERIC VERTICAL CALCULATIONS INCLUDING TIROS CLOUD AFCRL-62-1094	MOTION OBSERVATI 3-11965	ONS 05-21	AIR TURBULENCE CER-62ERR62	N63-10499	01-2
EVOLUTION AND MOTION OF COLD FRONT OF WEATHER SYSTEMS AS SHOWN BY METEOROL SATELLITE PHOTOGRAPHS			WIND SHEAR IN THE JETSTREAM SELWS-H-13	以在50°00年日184月至一至69年	02-2
AFCRL-62-867 N6	3-12081	05-21	DEVELOPMENTS IN METEOROLOGY JPRS-16379	H63-10639	
RADAR PRECIPITATION ECHO AND SATELL OBSERVATIONS OF MARITIME CYCLONE No.	ITE CLOUC 3-13546	Tan		DAIL ONE VADIORS	STOR .
NOMILITARY NAVIGATION BY SATELLITE SATELLITES - METEOROLOGICAL SATELLI	S - TRANS		METEOROLOGY AND HYDROLOGY JPRS-16348	ORDHOGSCHL ASPECT	
N6	3-13743	08-22	METEOROLOGICAL DATA FROM AE		
METEOROLIGICAL ROCKETS AND SATELLIT	ES -		SELWS-M-15	N63-10888	02-2

SOVIET-BLOC RESEARCH IN GEOPH SPACE SCIENCES /NO. 29/ 1962	YSICS, ASTRONO	HY, AND	NASA CONSIDERS DATA COLLECTION SATELLITE SYSTEM OCEANOGRAPHIC & METEOROLOGICAL APPLICATIONS	
JPRS-12445	N63-11013	03-01	N63-13587 08	-32
SOVIET AEROLOGICAL STUDIES JPRS-16691	N63-11181		TEMPERATURE AND WIND MEASUREMENTS ABOVE 50-KM OF WALLOPS ISLAND, VIRGINIA NASA-TN-D-1694 N63-13720 08	VER
NOTES ON THE COSMIC SPACE SYM JPRS-16749	POSIUM, 1962 N63-11188	03-12	PHYSICO-METEOROLOGICAL PRINCIPLES OF BAROMETRIC	
METEOROLOGY, ELECTROMAGNETIC SCIENCE; PLASMA PHYSICS, SOLA			HEIGHT MEASUREMENT - ALTIMETRY RAE-TRANS-1018 N63-13725 08:	-21
STUDIES AFCRL-62-714		03-01	METEOROLOGY OF MARS AND VENUS - THERMAL STRUCTU AND CIRCULATION OF ATMOSPHERE	RE -29
DIGITAL METEOROLOGICAL DATA AGAFCRL-62-1087	CQUISITION N63-11234	03-21	NUMERICAL WEATHER PREDICTIONS - GEOSTROPHIC AND	
SPACE SCIENCES - GEOPHYSICS,	METEOROLOGY N63-11413	03-12	NONGEOSTROPHIC MODELS AFCRL-62-684 N63-13927 09	-21
NOMOGRAM FOR FORECASTING DENS		03-19	ATLAS OF MONTHLY MEAN STRATOSPHERE CHARTS - 195 TO 1959 - PART 2, JULY TO DEC - AVERAGE CONDITION OVER NORTHERN HEMISPHERE	ONS
SOVIET PAPERS ON METEOROLOGY /	AND HYDROLOGY N63-11522	03-21	AF SURVEYS IN GEOPHYSICS-141 N63-13957 09 MEAN SEASONAL CROSS SECTIONS ALONG 80-DEGREES W	-12 EST
ECONOMIC IMPACT OF WEATHER IN	FORMATION ON A	VIATION	CONSTRUCTED FROM DAILY DATA - MEANS & STANDARD DEVIATIONS FOR JETSTREAMS N63-14068 09	-21
OPERATIONS METEOROLOGICAL DATA - AEROBEE SELWS-M-17	N63-11537 ROCKET AC 3.1 N63-11604	03-01 38 04-21	FORTRAN COMPUTER PROGRAMS FOR 704 COMPUTER AND APPLICATION TO METEOROLOGICAL DATA PROCESSING AFCRL-62-1098 N63-14184 09	-20
COMPUTER PROGRAM FOR NONSTEADY TRANSFER - METEOROLOGY	Y SOIL MOISTUR	E	METEOROLOGICAL AND BALLISTIC DATA FOR NIKE APACESR-006	HE
ERDAH-MET-2-63	N63-11626	04-21	ERDA-8 N63-14484 10	-21
SYNOPTIC RADIO METEOROLOGY NBS-TN-98	N63-11631	04-21	INTEGRATING HIGH SPEED DATA PROCESSING SYSTEM DESIGNED FOR WEATHER INFORMATION AFCRL-62-1108 N63-14605 10	-20
VERY LOW FREQUENCY RADIO NOISE AFCRL-62-1140	N63-11694	04-08	STOCHASTIC MODELS FOR INTERPRETING METEOROLOGIC	
MONTHLY ENERGY BALANCE CALCULA WEATHER STATIONS IN THE NORTH		AN	DATA AFCRL-63-241 N63-14654 10	-21
MO-712	N63-11852	04-21	METEOROLOGY OF MARS AND VENUS - EFFECT OF CLOUD COVER ON RADIATION BALANCE OF MODEL ATMOSPHERES	
INFRARED FLUX & SURFACE TEMPER FROM TIROS RADIOMETER MEASUREM MSL-10		04-21	N63-14678 10 ECONOMIC IMPACT OF WEATHER INFORMATION ON AVIAT	-29 ION
SEASONAL VARIATIONS IN WIND PR				-21
SOUTH OF RED SEA RELATIONSHIPS AMONG COEFFICIEN MOMENT, HEAT, AND MATTER TRANS			METEOROLOGICAL DATA FOR LAUNCHING NIKE-APACHE SR-007 ROCKET - AIR, WIND, IMPACT PREDICTION - BALLISTIC FACTOR - ROCKET PERFORMANCE ERDA-9 N63-15071 11:	-04
LAYER OF ATMOSPHERE JPRS-17299	N63-12135	05-21	KINETIC ENERGY BUDGET OF STRATOSPHERE OVER	
TROPOPAUSE PLACEMENT IN THE AM	TARCTIC N63-12148	05-12	NORTH AMERICA DURING THE WARMING OF 1957 AFCRL-63-429 N63-15394 12	-12
RAINDROP-SIZE DISTRIBUTIONS AN BY FALLING DISTANCE - SPECTROP	D VARIATION C	AUSED	METEOROLOGICAL AND MAGNETIC OBSERVATIONS IN SPA 1957-1958 N63-15428 12:	IN. -21
AFCRL-62-1091 WIND VARIABILITY AND ITS EFFEC	N63-12289	05-21	PROPOSED UNITED STATES PROGRAM FOR INTERNATIONAL QUIET SUN YEARS / IQSY/ — GEOPHYSICS, RADIO ASTRONOMY, AND METEOROLOGY N63-15672 13-	-01
PREDICTION SELWS-M-21	N63-12303		MUON FLUX AT SEA LEVEL - INTENSITY AND MOMENTUM CORRELATIVE TO METEOROLOGICAL PARAMETER VARIATION	ONS
OPERATIONAL NUMERICAL WEATHER COMPUTER RESULTS MO-728	PREDICTION - N63-12630	06-21	AFCRL-63-401 N63-15890 13- CLIMATOLOGY - WEATHER RADAR OBSERVATIONS -	-28
ANALYSIS OF SEVERE WEATHER FAC			SCANNING ANTENNAS	-21
AIRCRAFT TRAFFIC CONTROL NSSP-12	N63-12689	06-21	ROLE OF OROGRAPHIC BARRIERS AND VERTICAL MOTION GENERATION AND PROPAGATION OF SHOWERS	IN
OPTICAL AND METEOROLOGICAL DAT NEL-1150	N63-13010	07-21	N63-16366 14	-21
METEOROLOGY AND GLACIOLOGY IN TO SEPT 1960 - ICE RISE STATIO AINA RES. PAPER-24		ISLAND	RADIOLOGICAL PHYSICS RESEARCH - RADIOISOTOPE METABOLISM, QUANTUM YIELD OF LIQUID SCINTILLATO SHIELDING, FILM DOSIMETERS, RADON METEOROLOGY ANL-6646 N63-17305 15	RS,

VERTICAL & TEMPORAL DISTRIBUTIONS OF RADON IN THE ATMOSPHERE RELATED TO ATMOSPHERIC KINETICS - METEOROLOGICAL ANALYSIS - RADIOPHYSICS N63-17310

15-21

METEOROLOGICAL ASPECTS OF AIR TRAFFIC CONTROL TECHNIQUES FOR USING RADAR EQUIPMENT TO LOCATE
THUMDERSTORMS
FTD-TT-62-1679/162
N63-13586
08-21

ON - 000 - 0

9-20 CHE 0-21

0-20 CAL 0-21 D S 0-29 TION 1-21

1-04

2-12 AIN, 2-21 AL 3-01 M IONS 3-28

4-21 N IN 4-21 ORS, 5-01 THE

5-21

METEOROLOGICAL DATA - NIKE-APACHE SR-008 ERDA-29 N63-17527 16-21	METEOROLOGICAL DATA FOR MIKE-APACHE SR-014 ROCKET LAUNCHING - IMPACT PREDICTION & BALLISTIC DATA
SOURCES OF ERROR IN ROCKETSONDE THERMISTOR DATA -	ERDA-47 N63-19121 18-2
REVIEW OF PROBLEM AREAS IN STRATOSPHERIC HETEOROLOGY N63-17645 16-12	PROBLEMS IN CLIMATOLOGY AND METEOROLOGY OTS-61-11463 N63-19383 18-2
METEOROLOGICAL ANALYSES OF ROCKETSONDE WIND AND TEMPERATURE DATA FROM ATMOSPHERE RANGE - 30 TO 80- KM - SEASONAL VARIATION N63-17741 16-12	VARIATIONS OF METEOROLOGICAL ELEMENTS IN SPACE AND TIME - CLIMATOLOGY OF DIFFERENCES N63-19386 18-2
NETEOROLOGICAL STUDY OF COLD CLOUDS WITH SATELLITE INFRARED HORIZON SCANNERS IFCRL-63-413 N63-17752 16-21	USSR ABSTRACTS - TELLURIC CURRENTS, METEOROLOGY OF UPPER ATMOSPHERE, SOLAR RADIATION IN IONOSPHERE AND ATMOSPHERIC ELECTRICITY
SISTRIBUTION AND DURATION OF PRECIPITATION IN	AID-P-63-87 N63-19514 19-1
ESTERN AFRICA - METEOROLOGICAL DATA ANALYSIS N63-17755 16-21	METEOROLOGY IN THE SERVICE OF AGRICULTURE JPRS-20302 N63-19521 19-2
NETEOROLOGY - ENERGY CONVERSION, ANGULAR MOMENTUM, NASS TRANSFER AND WIND CIRCULATION IN STRATOSPHERE NG3-17783 16-21	ACCURACY OF METEOROLOGY MEASUREMENTS AT WOOMERA, AUSTRALIA SAD-125 N63-19749 19-2
NETEOROLOGICAL DATA FOR LAUNCHING OF AEROBEE NE 3.140 NRL-73 ROCKET IN NEW MEXICO — BALLISTICS	METEOROLOGICAL EVALUATION OF 2 TO 7 HOUR WEATHER FORECASTING TECHNIQUES FOR AIR TRAFFIC CONTROL
ALCULATION RDA-33 N63-18154 16-21	N63-20067 20-2
RETEOROLOGICAL DATA FOR LAUNCHING NIKE-APACHE	MEATHER DATA PROCESSING RED PROGRAM FOR AVIATION N63-20068 20-2
ALCULATIONS N63-18156 16-21	EXPERIMENTAL INPUT-DATA-HANDLING PROCEDURES FOR WEATHER OBSERVATIONS FROM THE FEDERAL AVIATION
ETEOROLOGICAL DATA FOR LAUNCHING OF AEROBEE	AGENCY MESOMETEOROLOGICAL NETWORK N63-20222 20-2
B 3.130 NRL-77 ROCKET IN NEW MEXICO - BALLISTICS RDA-39 N63-18157 16-21	INVESTIGATION OF FATAL AIRCRAFT ACCIDENTS
NTARCTIC RESEARCH PROGRAM - BIOLOGY, GEOLOGY,	INVOLVING WEATHER BOSP-7-4-1 N63-20410 20-0
LACIOLOGY, METEOROLOGY, AND OCEANOGRAPHY SF-63-14 N63-18169 16-12	SOVIET RESEARCH IN CLIMATE THEORY - METEOROLOGY (
ETEOROLOGICAL DATA GATHERED FOR THE LAUNCHING OF	JPRS-20782 N63-20661 20-
RDA-30 N63-18279 17-21	TRANSFORMATION OF EQUATIONS OF MOTION OF METEOROLOGY INTO ARBITRARY ORTHOGONAL COORDINATES
ETEOROLOGICAL DATA GATHERED FOR THE LAUNCHING OF EROBEE AC 3-371 RDA-32 N63-18280 17-21	AFCRL-62-1109 N63-20732 21-2 METEOROLOGICAL SYSTEM FOR COMMON AIR TRAFFIC
RDA-32 N63-1828U 17-21	CONTROL N63-21212 21-2
EROBEE NC 3.134 RDA-35 N63-18281 17-21	AUTOMATIC MACHINERY FOR METEOROLOGICAL EQUIPMENT SOVIET INSTRUMENTATION N63-21494 22-2
RETEOROLOGICAL DATA GATHERED FOR THE LAUNCHING OF HIKE-APACHE ROCKET, WHITE SANDS, NEW MEXICO RDA-36 N63-18282 17-21	METEOROLOGICAL DATA FOR LAUNCHING OF AEROBEE MB3.119 ROCKET AND FOR BALLISTIC STUDIES ERDA-50 N63-21718 22-2
NIGH RESOLUTION WIND AND WIND SHEAR MEASUREMENT WITH DOPPLER RADAR WASA-CR-50169 N63-18293 17-15	METEOROLOGY & HYDROLOGY - COMPUTER USAGE, EARTHS ATMOSPHERIC RADIATION BALANCE, HEAT BALANCE, MELI WATER REGULATION AND OCEAN SURFACE RADIATION
ETEOROLOGICAL DATA GATHERED FOR THE LAUNCHING OF	JPRS-20716 44 100 000 100 100 100 100 100 100 100
RDA-40 N63-18336 17-21	SOLAR RADIATION & THE IONOSPHERE - ATMOSPHERIC ELECTRICITY & METEOROLOGY OF UPPER ATMOSPHERE -
THOSPHERIC MODEL OF NONTROPICAL LATITUDES - NULL	REVIEW OF SOVIET LITERATURE AID-P-63-98 N63-22164 23-
AYER, DZONE LAYER, AND WAGNER-LINKE LAYER N63-18678 17-21	ATMOSPHERIC TRANSMISSION CURVES FOR METEOROLOGIC
ETEOROLOGICAL DATA GATHERED FOR THE LAUNCHING OF	CONDITIONS KE-TR-63-13 N63-22605 23-
EROBEE AS 1.310 AND AS 1.311 RDA-31 N63-18687 17-21	METEOROLOGICAL DATA FOR LAUNCHING OF AEROBEE
ETEOROLOGICAL REPORT - ATMOSPHERIC PHENOMENA AND	ROCKET EROA-51 N63-22720 23-
LIMATOLOGICAL NETHODS - TEMPERATURE GRADIENTS AND IND PROFILE PARAMETER CALCULATIONS UR-276.1 N63-18730 17-21	METEOROLOGICAL DATA REPORT FOR AEROBEE AC-3-354 LAUNCHING - BALLISTIC TRAJECTORY
ETEOROLOGICAL AND BALLISTIC DATA FOR LAUNCHING F AEROBEE KP 3-1 ROCKET N63-18851 18-21	RECENT USSR DEVELOPMENTS IN METEOROLOGY
ETEOROLOGICAL DATA FOR LAUNCHING OF AEROBEE	JPRS-21242 N63-23328 24-
E 3.140R RDA-44 N63-18895 18-21	ZONAL, MERIDIONAL, AND GENERAL ATMOSPHERIC CIRCULATION INDICES 6 METEOROLOGICAL EFFECTS
SETEOROLOGICAL DATA FOR LAUNCHING OF AEROBEE	LIM SWYSICS INSTRUMENT MANUAL
C 3-372 ROCKET IN NEW MEXICO N63-18903 18-21	ELECTRICAL MEASUREMENT OF AEROPHYSICAL VALUES - TEXTBOOK ON METEOROLOGY N63-23332 24-

METEOROLOGICAL DATA FOR NIKE-APACHE SR-015 ROCKET ERDA-72 N63-23430 24-21	MICROSCALE VARIATIONS IN RADIO REFRACTIVE INDEX OF ATMOSPHERE — REFRACTOMETER MEASUREMENT OF TURBULENT STRUCTURE MITHIN HEIGHT PROFILE AFCRL-63-71 N63-16242 13-21
SA ELON METER	MFCRE-03-11 N03-10242 13-21
SA GAUSSMETER SA MAGNETOMETER CF GAUGE	INSTRUMENTATION FOR OBSERVATIONS OF PLANETS IN FAR INFRARED — FERROELECTRIC BOLOMETERS AND RADIATION PYROMETERS 13-05
	ARDIATION FINDRETERS 13-03
CF INSTRUMENTATION CF INTEGRATOR	RANGER LUNAR LANDING VEHICLE WITH SEISMOMETER - IMPACT TESTS LC/B/-417 N63-17034 15-19
CF IONIZATION CHAMBER CF MEASURING APPARATUS	LC/B/-417 N63-17034 15-19
THEASURING APPARATUS IMPROVEMENTS IN THE GAK-2M GRAVIMETER JPRS-16197 N63-10364 01-15	FORKER FRIENDSHIP AIRCRAFT - FATIGUE LOAD METERS ARL/SM-276 N63-17233 15-15
RADIO REFRACTIVE INDEX, SURVEY OF METHODS - RADIOSONDES, REFRACTOMETERS & TEMPERATURE,	RADIOLOGICAL PHYSICS RESEARCH - RADIOISOTOPE METABOLISM, QUANTUM YIELD OF LIQUID SCINTILLATORS,
PRESSURE & AIR DENSITY NBS-TN-99 N63-11623 04-15	SHIELDING, FILM DOSIMETERS, RADON METEOROLOGY ANL-6646 N63-17305 15-01

THERMOELECTRIC COOLED, MIRROR TYPE DEMPOINT HYGROMETER FOR HIGH ALTITUDE APPLICATIONS BENDIX RLD-2055 N63-11877 04-15	EFFECT OF SILVER HALIDE CONTENT IN FILM EMULSION ON RADIATION DOSIMETER RESPONSE TO STRONTIUM-90/ YTTRIUM-90 BETA RADIATIONS - RADIOPHYSICS
	N63-17309 15-23
EXTENDING GAMMA DOSAGE RANGE MEASURING CAPABILITY OF FRICKE DOSIMETER	MEASURING IONIZING RADIATION WITH THERMO-
BNL-763/T-284/ N63-12336 05-15	LUMINESCENT DOSIMETERS - SATELLITE
ELECTRODYNAMIC MOVING COIL METER FOR MEASURING	INSTRUMENTATION NRL-5938 N63-17591 16-15
EXPLOSION VIBRATIONS	MMC-3930 M03-17391 10-13
TIL/Y-5280 N63-12363 06-15	ANALOG COMPUTER ANALYSIS OF SEISMOMETER MAGNETIC
PROPERTIES OF PHOTODETECTORS - BLACKBODY RESPONSE	TAPE RECORDINGS NASA-CR-50393 N63-17909 16-12
DATA FOR CORRER OVIDE AND THOUGH ANTIMONIDE CELLS	
AND THERMISTOR BOLOMETERS	HIGH LEVEL DOSIMETER WITH METER INDICATION AND
NOLC-575 N63-12409 06-15	AURAL SIGNALING - GAMMA RADIATION HW-77517 N63-18733 17-15
ELECTRONIC METER FOR RADIATION DOSES	The Control of the Co
RT/EL/62/11 N63-12448 06-15	AIR REFRACTIVITY CHANGE MEASUREMENTS IN
GAMMA RAY BEAM ANALYSIS BY CRYSTAL POLARIMETER -	TROPOSPHERE AT HIGH RELATIVE HUMIDITIES AND TEMPERATURES - HAY AND MICROWAVE REFRACTOMETERS
CROSS SECTION, ELECTRON PAIR PRODUCTION	AFCRL-63-631 N63-19377 18-21
LNF-62-68 N63-12570 06-23	GRAVIMETER FOR DETERMINING GRAVITATIONAL
VERTICAL DISTRIBUTION OF WATER VAPOR AT LOW LATITUDES AS MEASURED WITH BALLOON-BORNE FROST- POINT HYGROMETER	CONSTANTS AFCRL-62-1113 N63-19655 19-10
NRL-5817 N63-12698 06-21	PHOTOELECTRIC SKY BRIGHTNESS POLARIMETER
TUNABLE RESONANT GALVANOMETER - APPLICATION TO	AFCRL-63-809 N63-19848 19-15
SUB-AUDIO FREQUENCY RANGE N63-13033 07-15	ELECTRONIC TORSION DYNAMOMETER USING ZERO-POINT METHOD - MEASURING APPARATUS N63-20187 20-15
RADIOSENSITIVITY OF BIOELECTRIC FUNCTION OF RAT STOMACH AND CAECUM	GRAVITY MEASURING TECHNIQUES USING PENDULUMS
USNRDL-TR-611 N63-13079 07-16	AFCRL-63-665 N63-20241 20-15
INFRARED PHOTODETECTORS - INDIUM ANTIMONIDE CELLS, THERMISTOR BOLOMETERS, AND GERMANIUM CELLS	CONTROLLED POTENTIAL COULOMETER WITH TRANSISTORIZED POWER AMPLIFIERS FOR CHEMICAL
NOLC-578 N63-13625 08-15	ANALYSIS
ABBY CAR COOLED BEACTON CUCYENE BROCKAM MI 1	DP-798 N63-20396 20-09
ARMY GAS-COOLED REACTOR SYSTEMS PROGRAM - ML-1 ELECTRICAL POWERPLANT, DYNAMOMETER, MILLETRON	SYNCHRONIZATION OF FIELD INTENSITY MEASURING
COMPUTER	APPARATUS WITH TEST RADAR
100-28602 N63-13627 08-10	RADC-RAU-TN-63-3 N63-22516 23-09
HIGH ALTITUDE WATER-VAPOR DETECTORS - HYGROMETERS, VAPOR TRAPS, REFRACTOMETERS AFCRL-03-407 N63-14435 10-15	RELATIVE HUMIDITY ERRORS RESULTING FROM AMBIGUOUS DEWPOINT HYGROMETER READINGS - MEATHER STATION INSTRUMENTATION
AFCRE-03-407 M03-14433 10-13	AUS-TR-171 NA3-230AA 24-21
POLARIMETER DESIGN FOR LUNAR STUDIES AFCRL-63-405 N63-14448 10-15	THIN CALORIMETER AS DOSIMETER FOR INTENSE PULSED RADIATION
ATMOSPHERIC ELECTRICITY MEASUREMENTS WITH	GA-4497 N63-23136 24-15
CONDUCTIVITY METER IN NORTH ATLANTIC - FOG	
PREDICTION NRL-5833 N63-14783 11-12	HELIOMETER OBSERVATIONS OF MOONS ROTATION AND MECHANICAL FIGURE N63-23303 24-05
LOW FREQUENCY SWEEP POLARIMETER FOR IONOSPHERIC SOUNDING AFCAL-63-290 N63-14978 11-15	X-RAY DENSITOMETER FOR USE IN PLASMA STREAMS AIAA PAPER 63-387 N63-23400 24-24
MOJ-14910 11-13	DESIGN OF PYRHELIOHETERS AND ESTABLISHMENT OF
CONTROLLED-POTENTIAL COULOMETER FOR CHEMICAL	STANDARD SCALES FOR SOLAR RADIOMETRY
ANALYSIS UCRL-7165 N63-15092 11-15	AFCRL-63-887 N63-23667 24-15
	METHACRYLATE
HEALTH PHYSICS INSTRUMENT MANUAL	METHACRYLATE SA GLYCIDYL METHACRYLATE SA METHAL
ORNL-332/3RD ED./ N63-16031 13-15	SA METHYL METHACRYLATE HYDROGEN BONDING RELATED TO VISCOELASTICITY OF

OF

-21

-05

-19

-15

RS,

-01

-23

-15

-15

-21

-10

15

15

15

09

09

S

21

15

05

24

15

LIGHTHILL METHOD

08-23

08-23

MOIRE METHOD
HOMENT METHOD
MONTE CARLO NETHOD
MENTON-RAPHSON METHOD
OPTICAL METHOD
PERCUS METHOD
PRODUCTION METHOD
SHOCK EXPANSION METHOD
STRATFORD METHOD
TRAVELING SOLVENT METHOD
VARIATION METHOD
VARIATION METHOD
VON ZEIPEL METHOD AMORPHOUS POLYMER NETWORKS - MODULUS TEMPERATURE RELATIONSHIPS OF METHACRYLATES ONR-TR-RLT-55 N63-11962 05-07 INFLUENCE OF HYDROGEN BOND ON VISCOELASTIC PROPERTIES OF METHACRYLATE POLYMERS — TEMPERATURE — MODULUS STUDIES N63-15611 12-07 HEAT TRANSFER AND PRESSURE DISTRIBUTIONS ON A HEMISPHERE-CYLINDER AND A BLUFF-AFTERBODY MODEL IN METHANE-AIR COMBUSTION PRODUCTS AND IN AIR NASA-TN-D-1503 N63-10534 01-13 EFFECTS OF FUEL AND ELECTROLYTE COMPOSITION ON COMPONENT PERFORMANCE IN METHANOL FUEL CELL N63-14133 09-06 INFRARED ABSORPTION BY NITROUS OXIDE, CARBON MONOXIDE AND METHANE N63-11588 04-07 CHEMICAL REACTIONS - HALOGEN ATOMS AND METHYL HYDRATES AT HIGH PRESSURE - METHANE- AND ARGON-ASD-TDR-63-273 N63-16712 14-07 VAPOR-LIQUID EQUILIBRIA FOR HELIUM-NITROGEN-CHEMICAL KINETICS - REACTION OF POTASSIUM WITH METHYL BROMIDE IN CROSSED MOLECULAR BEAMS METHANE MIXTURE N63-13029 07-07 BM-RI-6178 TRITIUM IN ATMOSPHERIC GASES - HYDROGEN & METHANE AFCRL-63-260 N63-14090 09-07 METHYL METHACRYLATE MECHANISM OF PHOTOSENSITIZED POLYMERIZATION OF METHYL METHACRYLATE AT ZINC OXIDE CATALYTIC SURFACES - INORGANIC CHEMISTRY DEVELOPMENT OF CATALYST SCREEN ELECTRODE STRUCTURE TO TEST POWDERED ELECTRODE MATERIALS FOR HYDROCARBON FUEL CELLS - METHANE SERIES RESULTS N63-14134 09-06 EFFECT OF SECTION SIZE ON BEND & NOTCH BEND STRENGTH OF ALUMINUM, METHYL METHACRYLATE, & STEEL MET-1078-863-11 N63-20674 20-33 SOLID STATE AND MOLECULAR THEORY, BENZENE, METHANE SCATTERING, SYMMETRY, ENERGY BANDS, CRYSTALLINE STRUCTURES, LATTICE VIBRATION & ELECTRONIC EFFECTS METHYLISOCYANATOSILANE
METHYLISOCYANATOSILANES AND THEIR INFRARED
ABSORPTION SPECTRA N63-14112 N63-14482 10-25 LIFETINES OF ICES OF COMMON VOLATILES /MATER, CARBON DIOXIDE, METHANE/ IN SOLAR SYSTEM N63-16702 14-29 PHYSICS - DIELECTRICS OF MICA AND EFFECT OF GAMMA RADIATION REACTION KINETICS FOR GRAPHITE WITH HYDROGEN AND METHANE AT HIGH TEMPERATURES FTD-TT-62-1474/16264 N63-18114 16-07 SHOCK TUBE IGNITION OF METHANE-OXYGEN MIXTURES N63-18519 17-26 DIELECTRIC LOSSES IN MICA AFTER HEAT TREATMENT AND IGNITION TEMPERATURE AND LIMITING FUEL CONCENTRATIONS OF MIXTURES OF COAL GAS, METHANE, AND AIR BY HOT GAS JET IGNITION EFFECT OF GAMMA RADIATION ON DIELECTRIC LOSSES HIGH TEMPERATURE INDRGANIC RESIN & ELASTOMER R&D DEGRADATION OF ASBESTOS & MICA, SILICATE-SILANE
REACTIONS, PHENYL SUBSTITUTION RADICAL CONCENTRATIONS AND REACTIONS IN METHANE-OXYGEN FLAME N63-18556 17-17-26 REACTIONS OF GASEOUS IONS - HIGH PRESSURE MASS SPECTROMETRIC STUDY OF METHANE IN SQUID PROJECT HUM-2-P N63-19305 18 PARTICLE DETECTION IN SPACE - LITHIUM ION DRIFT DETECTOR, PULSE AMPLIFIER, NUCLEAR EMULSIONS AND RADIATION SENSITIVE MICA R63SD37 N63-19021 18-09 18-07 ION REACTIONS AT LOW ELECTRON ENERGY - HYDROGEN, DEUTERIUM, AND METHANE - SQUID PROJECT MICE S HOUSE STRENCE THE MICH TO DOCKN SASIN- BOTANY, ELECTRONIC WAVE FUNCTION FOR GROUND STATE OF
N63-21773 22-23 MICHELSON INTERFEROMETER THE SPATIAL DISTRIBUTION OF THE VISIBILITY OF INTERFERENCES IN THE MICHELSON INTERFEROMETER FTD-TT-62-1178/162 N63-10445 01-15 INFRARED DISPERSION OF DICHLOROMETHANE, DIBRONOMETHANE, AND DIIDDOMETHANE MICHELSONS INTERFEROMETER AND ITS USE IN AURORAL SPECTROSCOPY IN NEAR INFRARED N63-22386 23-07 AFCRL-63-858 ADENINE FORMATION FROM METHANE, AMMONIA, & WATER BY ELECTRON IRRADIATION N63-22606 23-16 N63-20983 21-12 MICHIGAN PROJECT NONLINEAR SHALLOW SHELL ANALYSIS BY THE MATRIX N63-10861 02-33 METHOD ASYMPTOTIC METHOD
BRIDGHAN METHOD
COMPUTER METHOD
ELECTROMAGNETIC METHOD HUMAN ESTIMATION OF MEAN OF SEQUENTIALLY DISPLAYED DISTRIBUTION - TIME DEPENDENT PROBABILITY ENCKE METHOD
FINITE DIFFERENCE METHOD
FISCHED METHOD PROBABILITY CHARACTERISTICS OF SEMSOR OUTPUTS TO REDUCE REDUNDANT INFORMATION TRANSMISSION FISCHER METHOD FISCHER HETHOD
FUGITA METHOD
GALERKIN METHOD
HODOGRAPH METHOD
LEAST SQUARES METHOD
LENARD WIRE METHOD N63-21405 22-20

NONLINEAR SYSTEMS WITH DYNAMIC BEHAVIOR REPRESENTED BY NONLINEAR DIFFERENTIAL EQUATION N63-22075 Z

HICROANALYSIS ULTRA-MICROANALYSIS OF 1,1-DINETHYL HYDRAZINE IN BLOOD	MICROELECTRONICS ADVANCED ELECTRONIC PACKAGING TECHNIQUES AMC-RG-TR-62-4 N63-10217 01-09
AMRL-TDR-62-120 N63-10187 01-16 ELECTRON PROBE MICROANALYSIS OF ORGUEIL METEORITE	MICROELECTRONIC SYSTEMS AND APPLICATIONS ONR-14 N63-17351 15-09
FOR EXTRATERRESTRIAL LIFE N63-13089 07-07 X-RAY OPTICS & X-RAY MICROANALYSIS - THIRD	MICROELECTRONIC APPLICATIONS PROGRAM N63-17352 15-10
INTERNATIONAL SYMPOSIUM, 1962	THIN FILM MICROELECTRONICS N63-17353 15-17
MICRO-TECHNIQUE FOR BLOOD GROUPING -	MICROELECTRONICS LAB REPORT - FABRICATION METHODS
HEMAGGLUTINATION REACTION TESTING ARL-TDR-62-20 N63-15405 12-16	FOR RESISTORS, CONDUCTORS, AND CAPACITORS N63-17354 15-17
ELECTRON PROBE X-RAY MICROANALYSIS OF ORGANIZED ELEMENTS IN THE ORGUEIL CARBONACEOUS METEORITE N63-20933 21-05	MICROELECTRONICS RED - SEMICONDUCTOR, FIELD EFFECT MODULATION, AND MAGNETIC FILM LOGIC N63-17355 15-09
MICROANALYZER CASTAING ELECTRON BEAM MICROANALYZER MODIFICATIONS AND APPLICATIONS	MICROWAVE APPARATUS USING SEMICONDUCTOR MICROELECTRONICS N63-17356 15-09
EUR-109-F N63-10780 02-15	MICROELECTRONICS LAB AT JOHN HOPKINS UNIVERSITY N63-17357 15-09
EFFECT OF SOLIDIFICATION VARIABLES ON MECHANICAL PROPERTIES OF CAST STEEL - MICROANALYZER WAL-TR-311-1/1 N63-15854 13-18	MICROELECTRONICS R&D AT NRL - TUNNEL DIODE FABRICATION, THIN FILMS, P-N JUNCTIONS, AND RADIATION EFFECTS N63-17358 15-09
MICROBALANCE A VACUUM-STABLE MICROBALANCE FOR HIGH TEMPERATURE OXIDATION ANALYSES	MICROELECTRONICS FOR SHIPBOARD USAGE N63-17359 15-09
ARL/MET-15 N63-10876 02-15 HIGH TEMPERATURE EQUILIBRIUM VAPOR PRESSURES OF	MICROELECTRONICS PROGRAM AT NEL N63-17360 15-09
INDRCANIC MATERIALS USING MICROBALANCE AND ELECTRON BOMBARDMENT HEATING - SILVER, PALLADIUM R635D6 N63-17076 15-18	MICROELECTRONICS - THIN FILM COMPONENTS N63-17361 15-09
MICROBALANCE TECHNIQUE FOR VAPORIZATION RATE	MICROELECTRONICS RED N63-17362 15-10
ANALYSIS OF REFRACTORY SUBSTANCES AND DESCRIPTION OF ION PUMPING SYSTEM N63-19996 19-15	MICROELECTRONICS - THIN FILM AIRBORNE COMPUTER N63-17363 15-20
MICROBIOLOGY CF MICRODRGANISH DEVICE FOR DETERMINING MICRODGANISMS IN AIR	MICROELECTRONICS - MATERIALS AND PROCESSES FOR THIN FILM CIRCUITS N63-17364 15-17
JPRS-16407 N63-10583 02-16 AEROBIC MICROBIOLOGICAL PROCESS FOR PROCESSING OF	MICROELECTRONICS - THIN FILM CIRCUITS AND PHASE- SHIFT OSCILLATOR N63-17365 15-06
MASTES N63-11479 03-16 MICROBIOLOGICAL WASTE TREATMENT IN CLOSED	INSULATED-GATE FIELD-EFFECT DEVICES FOR MICROELECTRONICS N63-17366 15-09
ECOLOGICAL SYSTEM AMRL-TDR-62-126 N63-11924 04-16	MICROELECTRONICS - INTEGRATED PASSIVE AND ACTIVE THIN FILM TECHNOLOGY N63-17367 15-17
MICROBIOLOGICAL MASTE DISPOSAL TECHNIQUES FOR SPACE FLIGHT APPLICATION - BIOCOIDE TREATMENT, DEHYDRATION, CHEMICAL & MICROBIOLOGICAL OXIDATION AMRL-TDR-62-142 N63-14177 09-16	MICROELECTRONICS R&D - CIRCUIT REDUNDANCY & ADAPTATION, SURFACE-FIELD EFFECT TRANSISTOR, SUPERCONDUCTIVE TRAPPED FLUX MEMORY N63-17368 15-09
EXTRATERRESTRIAL MICROBIOLOGY - MARS, RESPIRATION AND PHOTOSYNTHESIS N63-14434 10-16	RELIABILITY IN MICROELECTRONIC SYSTEMS N63-17369 15-17
SCIENCE IN ARCTIC OCEAN BASIN - BOTANY, ZOOLOGY, MICROBIOLOGY, PHYSIOLOGY AND MEDICINE, AND ECOLOGY	MICROELECTRONICS - THIN FILM APPROACH TO COMPLEX ELECTRONIC APPARATUS N63-17370 15-17
NAS-NRC-1086 N63-16837 14-16 BIOLOGICAL OXIDATION IN MICROBIOLOGY - RESPIRATION	FEEDBACK SERVOAMPLIFIER - MICROELECTRONICS N63-17371 15-09
AND OXIDATION STUDIES JPRS-20575 N63-19753 19-16	INTEGRATED CIRCUITS - MICROELECTRONICS N63-17372 15-09
MICROBIOLOGICAL AND CYTOLOGICAL STUDIES IN SPACECRAFT - SPACE BIOLOGY N63-21509 22-16	MICROELECTRONICS RESEARCH SPONSORED BY OFFICE OF NAVAL RESEARCH N63-17373 15-09
MICROCRACK FRACTURE MECHANICS - PROBLEM IN PROPAGATION OF MICROCRACK, GRIFFIN CRACK AND FRACTURE CRACKS ASD-TDR-63-221 N63-15325 12-33	MICROELECTRONICS RESEARCH PROGRAM FOR INFORMATION PROCESSING IN OFFICE OF NAVAL RESEARCH N63-17374 15-09
MICRODENSITOMETER LUNAR TOPOGRAPHY - LUNAR SHADON, LUNAR CRATER,	MICROELECTRONICS - PROGRAM FOR INTEGRATED SHIPBOARD ELECTRONICS N63-17375 15-09
MICRODENSITOMETER MEASUREMENT N63-14855 11-05	MICROELECTRONICS - SYNTHESIS OF DECODER SUBSYSTEM USING THIN FILM TECHNIQUES N63-17376 15-09
SURFACE PHOTOMETRY OF PLANETARY NEBULA, GALAXY, AND INTERSTELLAR MATERIAL - ISOPHOTES BY MICRODENSITOMETER N63-15082 11-05	MICROELECTRONICS - EFFECTS OF NUCLEAR RADIATION ON ELECTRONIC EQUIPMENT N63-17377 15-23

-09 -09 -10 -17 DS -17 ECT 5-09 5-09 y 5-09

5-09 5-09 5-09 5-09 5-10 5-20 5-17 E-5-06

5-09 VE 5-17

5-09 5-17 EX 5-17

5-09 5-09 OF 15-09 TION 15-09 15-09 STEM 15-09

ON ON 15-23

FEASIBILITY OF MICROMETEOROID VELOCITY DETECTOR NASA-TN-D-1977 N63-21271 21-12
SPACE ENVIRONMENT AS A DIELECTRIC - SOLAR CORONA AND MICROMETEOROID EFFECTS NO. N63-22687 23-29
MICROMETEOROLOGY THREE-DIMENSIONAL STRUCTURE OF PLANETARY BOUNDARY LAYER - MICROMETEOROLOGY, TURBULENT BOUNDARY LAYER N63-12580 06-21
ENERGY BUDGET AT EARTH SURFACE - MICROMETEDROLOGY AND WIND TEMPERATURE PROFILES
N63-16581 14-21 INSTRUMENT CAPABLE OF EXAMINING NULAR MATERIAL FOR CRATERS DUE TO MICROMETEOROID IMPACT IT-1067 N63-21793 22-29
MICROMINIATURIZATION MICROPOWER TRANSISTOR LOGIC CIRCUITS FOR SPACE
SCIENCE APPLICATION N63-14976 11-09
MOLECULARIZED PULSE-CODE MODULATION TELEMETRY TRANSMITTING SET N63-15425 12-08
MICROMINIATURIZED ELECTRONIC EQUIPMENT CF AIRBORNE ELECTRONIC EQUIPMENT PRINTED RESISTORS IN MICROMINIATURE ELECTRONIC EQUIPMENT AIO-S-63-13 N63-12319 05-09
RESONANT FREQUENCY EQUATION FOR RIGHT CIRCULAR CYLINDERS OF ANY DIMENSION - MICROMINIATURE CERAMIC PIEZOELECTRIC FILTER & TRANSFORMER DESIGN
TR-1108 N63-14559 10-09 MICROMINIATURIZED SOLID-STATE MICROMAVE CIRCUIT UTILITY AS GUIDED MISSILE COMPONENT
NAVWEPS-8144 N63-15717 12-09
MICROMINIATURE AMPLIFIER WITH THIN FILM PASSIVE COMPONENTS TR-1119 N63-17079 15-09
MICROORGANISM CF ALGAE CF BACTERIA CF FUNGUS
CF MICROBIOLOGY CF PROTOZOA BIOLUMINESCENCE AS A PHYSIOLOGICAL INDEX
DEVICE FOR DETERMINING MICROOGAMISMS IN AIR
MICROBES AND THE COSMOS - VIABILITY OF INDIVIDUAL
CELLS OF A MULTICELLULAR ORGANISM JPRS-16402 N63-10640 02-29
CONTINUOUS PROPAGATION OF MICROORGANISMS N63-11000 03-16
VIABILITY OF TERRESTRIAL MICROORGANISMS IN A SIMULATED MARTIAN ENVIRONMENT ARF-3194-7 N63-11127 03-29
METABOLIC, ECOLOGIC, AND GENETIC PROCESSES IN TERRESTRIAL MICROORGANISMS UNDER SIMULATED PLANETARY ENVIRONMENTS N63-11302 03-29
AEROBIC MICROBIOLOGICAL PROCESS FOR PROCESSING OF WASTES N63-11479 03-16
EFFECT OF INTESTINAL MICROORGANISMS ON RADIATION SIGNNESS IN MICE JPRS-17170 N63-11840 04-16
EFFECT OF VACUUM OH MICROORGANISMS JPL-TR-32-289 N63-12213 05-16
OBJECTIVES OF SPACE BIOLOGY - SEARCH FOR EXTRA- TERRESTRIAL LIFE, SUPPORT OF MANNED SPACE FLIGHT, STUDY OF ORGANISM-ENVIRONMENT RELATIONSHIPS
N63-12836 06-16 EXISTENCE AND IDENTITY OF VIABLE MICROORGANISMS IN STRATOSPHERE N63-13268 07-16

BIOCHEMICAL FUEL CELLS - USE OF LIVING ORGANISMS AND CELL-FREE EXTRACTS, ENZYMATIC PROCESSES, BIOANDDE AND BIOCATHODE PREPARATIONS 09-06 BIOCHEMICAL PROBE OF MIXED CULTURE PROTOTYPE IN CLOSED ECOLOGICAL SYSTEM N63-15041 11-16 STERILIZATION OF UNMANNED LUNAR AND PLANETARY SPACECRAFT AGAINST EARTH MICROBIAL ORGANISMS JPL-TR-32-325/REV./ ASTRONAUTICS ARSTRACTS - FEFECTS OF STERILIZING AGENTS ON MICROORGANISMS JPLAI/LS-260, SUPPL. N63-16122 13-16 EXPLORATION OF STRATOSPHERE FOR VIABLE MICRODRGANISHS NASA-CR-50298 17-16 N63-18396 SALMONELLA-INFECTED MICE EXPOSED TO ACUTE COLD ENVIRONMENT - RESPIRATORY SYSTEM AS SOURCE OF SECONDARY STAPHYLOCOCCUS INFECTION AAL-TDR-62-49 N63-19455 19-16 MICROBIAL CONTAMINATION OF EXPOSED SURFACES DUE TO HANDLING OR AIR CURRENTS NASA-CR-50843 N63-19962 EFFECT OF MAGNETIC FIELD ON BIOLOGICAL ORGANISMS AEROSPACE MEDICINE N63-20572 LIFE IN EXTRATERRESTRIAL ENVIRONMENTS - SIMULATION OF MARTIAN ENVIRONMENT AND SURVIVAL OF MICROPREANISMS NASA-CR-50883 N63-21997 22-16 DETECTION OF MICRODRGANISMS IN JP-4 FUEL FROM CARBON DIOXIDE PRODUCED BY CELLULAR RESPIRATION AMRL-MEMO-M-26 MICROPARTICLE EFFECT OF GRAM STAIN ON MICROSPHERES FROM THERMAL POLYAMINO ACIDS N63-17687 16-1 16-16 GRAPHITE MICROPARTICLES FOR HEAT TRANSFER MEDIUMS RM-RI-6255 N63-18380 17-13 MICROPUL SATION METEORS AND MICROPULSATION IN EARTH MAGNETIC FIELD 14-05 N63-16656 COOPERATIVE GEOMAGNETIC MICROPULSATION MEASUREMENT N63-21464 22-12

RECORDING EQUIPMENT FOR GEOMAGNETIC MICROPULSATION GRAPHS AFCRL-62-705 N63-23627 24-12

MICROSCOPE

SA ELECTRON MICROSCOPE VERSATILE FIELD ION MICROSCOPE - APPLICATIONS TO SOLID NITROGEN CODLING & GRAIN BOUNDARIES N63-12206 05-15

FIELD ION MICROSCOPE CBSERVATION OF ADATOMS -NITROGEN ON TUNGSTEN - ADSORPTION N63-15751 12-23

STRUCTURE OF AUSTENITIC STAINLESS STEEL UNDERGOING MARTENSITE TRANSFORMATION IN CRYOGEN HYDROGEN STUDIED WITH ION BOMBARDMENT MICROSCOPE 15-25 CERN-63-11 N63-17468

FIELD ION MICROSCOPY OF IRON WHISKERS N63-17893 ASD-TDR-63-138 16-25

USE OF ULTRAMICROSCOPE WITH DARK FIELD FOR STUDYING THE EFFECTS OF X-RAY IRRADIATION ON BLOOD N63-18952 18-16

ELECTRIC SORPTION AS POSSIBILITY OF REDUCING TIME OF ADSORBING GASEOUS RESIDUES ON TUNGSTEN EMITTER OF A MUELLER MICROSCOPE FTD-TT-63-377/162 N63-23640 24-09

SA ELECTRON MICROSCOPY

LUNINESCENT-MICROSCOPIC EVALUATION OF BLOOD & BONE MARROW DURING X-RAY IRRADIATION 06-16

MORPHOLOGY OF MICROSTRUCTURES IN METEORITES AND PREPARATION OF CARBONACEOUS CHONDRITES FOR MICROSCOPIC ANALYSIS - EXTRATERRESTRIAL LIFE JPL-TR-32-398

DISLOCATION STUDIES IN DIAMOND X-RAY DIFFRACTION MICROSCOP N63-17608 AFCRI -63-65 16-25

BIOCHEMICAL ANALYSIS OF MARTIAN SOIL BY VIDICON MICROSCOPY N63-19483 19

MICROSCOPIC SYSTEM USING PNEUMATIC FOUIPMENT FOR STUDYING MARTIAN AEROSOLIZED SURFACE PARTICLES NASA-CR-51538 N63-23035

HICROSTRUCTURE CE CRYSTAL

IDENTIFICATION OF MICROCONSTITUENTS IN SUPERALLOYS N63-10282 DMIC-MEMO-160 01-18

ATMOSPHERIC MICROSTRUCTURE & ITS BEARING ON CLEAR-AIR TURBULENCE CER-62ERR62

MICROSTRUCTURE OF A HYDROGEN-BROMINE FLAME N63-10730 02-26

CHROMIUM MICROSTRUCTURAL DISLOCATIONS RELATED TO BRITTLENESS N63-10984 02-18 JPRS-16591

MICROSTRUCTURAL CHANGES PRODUCED IN RENE 41 ALLOY HEAT SHINGLES ON MERCURY CAPSULE NA3-12056 05-18

PROCESSING EFFECTS ON THE STRENGTH AND MICRO-STRUCTURE OF CERAMICS MADE FROM PRESSED SINTERABLE MAGNESIA POWDERS ASD-TDR-62-700 N63-12406

MICROSTRUCTURES OF COMPLEX MORPHOLOGY OBSERVED IN PREPARATIONS OF CARBONACEOUS CHONDRITES MADE UNDER STERILE CONDITIONS N63-14203

SOLID PROPELLANT INVESTIGATION - DEFORMATION AND VOLUME CHANGE, BINDER-OXIDANT INTERFACE AND FAILURE MODES, PROPELLANT MICROSTRUCTURE

N63-14617 10-26 FUNDAMENTAL SIZE LIMITATIONS FOR SENICONDUCTOR

MICROSTRUCTURES AFCRL-63-12 N63-15104 11-25

MICROSTRUCTURE OF DISPERSION-HARDENED ALLOYS AND ITS RELATION TO CREEP RESISTANCE N63-15534 12-18

MICROSTRUCTURE TESTING OF RESIN POLYMER MECHANICAL PROPERTIES AND RHEOLOGICAL BEHAVIOR ONERA-TN-71 NA3-15739

INFLUENCE OF MICROSTRUCTURAL INCLUSIONS ON WEAR AND FRICTION OF NICKEL AND IRON ALLOYS IN VACUUM ENVIRONMENT NASA-TN-D-1708 N63-15769 13-17

PYROLYTIC GRAPHITE COATINGS FOR ROCKET NOZZLES -EFFECT OF DEPOSITION VARIABLES ON GRAPHITE MICROSTRUCTURE - SCALE MOTOR TEST FIRING RESULTS N63-15942 13-27

MICROSTRUCTURE TESTING OF POLYCRYSTALLINE ALUMINUM AND MAGNESIUM OXIDES RAD-SR-62-219 N63-16176 13-18

MICROSTRUCTURE OF POLYCRYSTALLINE REFRACTORY OXIDES - ALUMINUM AND MAGNESIUM OXIDES RAD-SR-63-29 N63-16177 13-18

-33

KINETICS OF STRESS CORROSION FOR VARIOUS STRUCTURAL ALLOYS AT ROOM AND ELEVATED TEMPERATURES - MICROSTRUCTURE EFFECTS ASD-TR-61-713, PT. II N63-10 N63-16690 INE -16

-29 4 -25 -15 R -29

OYS -18 AR--21 -26

0 -18 YO. -18 BLE -19 IN NDER 9-29 ND 0-26

1-25 ND 2-18 ICAL 2-17 R 3-17 -TS 3-27 AINUM 13-18

13-18

14-33

INDRGANIC CHEMISTRY, THERMODYNA PHYSICS, KINETICS, ELECTROCHEMI AND CERAMICS, MICROSTRUCTURE, A UCRL-10706	STRY, HETALLI	JRGY TERIAL
MICROSTRUCTURE OF INTERNAL MAGNI FERROMAGNETIC, FERRIMAGNETIC, A	ETIC FIELD IN	A FACE
ANTIFERROMAGNETIC SOLIDS ASD-TDR-63-208	N63-17913	16-25
ELASTIC PROPERTIES OF POLYCRYST ALUMINATE SPINEL AS FUNCTION OF AROD-2891-7		
ELECTROMAGNETISM IN DISTANT GEO MICROSTRUCTURE OF UNSTABLE COLL	MAGNETIC FIEL ISIONLESS PLA N63-19619	ASHA
STRUCTURE OF MAGNESIUM-THORIUM- ALLOY - EFFECT OF TEMPERATURE, HYDROGENATION	ZINC-ZIRCONIL DXIDATION AND N63-20695	JM) 21-18
ALLOYING EFFECT ON TENSILE PROPI STRUCTURE OF TUNGSTEN-FIBER-REI NASA-TN-D-1568	NFORCED COMPO	
ICROTHRUST ENLARGEMENT OF ELLIPTIC SATELLI		
CONTINUOUS MICROTHRUST RAE-TN-SPACE-38	N63-22205	23-29
MICROVISION DISPLAY AIRBORNE ELECTRONIC EQUIPMENT - MEATHER LANDING AID	MICROVISION N63-13367	
CEROMAVE CF INFRARED RADIATION CF MILLIMETER MAVE MICROMAVE MEASUREMENT OF PROJECT WITHIN LAUNCHER BARRELS		
AEDC-TOR-62-213	N63-10131	01-15
HIGH-ALTITUDE WATER-VAPOR ABUNDA BASED MICROWAVE OBSERVATIONS		
SULFUR HEXAFLUORIDE IN HIGH-POWE SYSTEMS, DIELECTRICS, WAVEGUIDE	S	
RADC-TDR-62-443	N63-10902	
FREQUENCIES	100.00	
AFCRL-62-579	N63-11037	03-09
HOLECULAR STRUCTURE AND SPECTROS TOKYO, 1962	SCOPY - SYMPO N63-11580	
MICROWAVE ENERGY CONVERSION BY S	CONDUCTOR	
RECTIFICATION WADD-TR-61-48, PT. III	N63-11630	
HICROWAVE CAVITY SPECTROMETER FO	DETERMINING	
SURFACE RECOMBINATION	N63-11664	04-15
RESEARCH IN ELECTROMAGNETICS, PI SOLID STATE, MICROHAVE CIRCUITS R-452-22-62	LASMA PHYSICS CONTROL SYS N63-11687	TEMS
SPACE SYSTEMS - SHARING BETWEEN SATELLITE RELAYS AND TERRESTRIAL TD-937		ELAYS
GROUND-BASED MICROWAVE RESONANCE DETERMINING HIGH ALTITUDE WATER APPLICATION TO OTHER ATMOSPHERIC	VAPOR ABUNDA	
HIGH POWER AND DELILAH PROJECTS POWER LEVELS FOR ANTIMISSILE RAC CAL-UB-1309-P-108	AR SYSTEMS	06-08
BIBLIOGRAPHY FOR HINDERED INTER	- 52.10-4	9-100
MICROWAVE SPECTROSCOPY UCRL-10404	N63-12940	

RADC-TDR-63-17	N63-12954 07-09
FLOW CALORIMETERS FOR 4-MM AN RANGE RADC-TOR-62-600	1 TO LOT DISKUADDSCLU
KADC-10K-62-600	N63-13008 07-15
PLASMA WAVEGUIDE CELL FOR AFT	REGLOW MICROWAVE N63-13090 07-15
PHYSICS, SOLID STATE DEVICES, ASTRONOMY, AND CRYOGENIC APPL MICROWAVE TECHNIQUES	MASERS, RADIO- ICATIONS OF N63-13094 07-23
MICROWAVE INTERACTIONS AT CRY ELECTRON SPIN RESONANCE, LASE PHYSICS, INTERMETALLICS, DETE	R. SOLID STATE
MARINER II MICROWAVE AND INFR RESULTS	ARED RADIOMETER N63-13151 07-29
DC VOLTAGE IN FERRITE FILMS U EXCITATION - MAGNETORESISTANC PIBMRI-108-62	NDER MICROWAVE E AND HALL EFFECT N63-13645 08-23
ATOM CONCENTRATIONS PRODUCED DISCHARGE IN NITROGEN AND HYD	
POWER SYSTEMS - MICROWAVE CIR SHIFTER, SHOCK TUBES, ELECTRO METHYLISOCYANATES	CUITS, FERRITE PHASE LUMINESENCE AND N63-14104 09-01
INFINITELY VARIABLE FERRITE P HIGH SPEED CONTINUOUS BEAM SC MICROWAVE POWER RECEPTION FRO	ANNING AND IN
BROAD-BAND MATCHING OF MICROM FROM INCREASED INFORMATION HA MICROWAVE SUPER-MULTICHANNEL	NOLING CAPACITY OF
EFFECT OF PLANE SLAB OF IONIZ OF FOCUSED LENS TRANSMISSION TR62-209N	ATION IN FOCAL PLANE SYSTEM N63-14197 09-24
MICROWAVE PROPAGATION IN FLOW PRESENCE OF MAGNETIC FIELD	ING PLASHA IN N63-14392 10-24
MICROWAVE REFLECTION BY NONUN EXPONENTIAL ELECTRON DISTRIBU R625047	
FREQUENCY ASSIGNMENT FOR COMM AND GROUND STATION - TROPOSPH SHIELDING, AND MICROWAVE TRAN	ERIC SCATTER, TERRAIN SMISSION N63-15048 11-08
MICROWAVE GAS BREAKDOWN WITH MANDSECOND PULSE BREAKDOWN — EFFECT ON ELECTROMAGNETIC PRO RADC-TDR-62-616	EMPHASIS ON PLASMA CONDUCTIVITY
MEASUREMENT 10 GC/S MICROMAVE HALL EFFECT IN SEMICONDUCTOR	
MATRIX ANALYSIS OF BILINEAR T BILINEAR MATRIX DESCRIPTION A MICROWAVE NETWORK	ND APPLICATION TO
PIBMRI-1137-63 TUNABLE PHASE STABILIZED HICK	N63-15190 11-20 DWAYE OSCILLATOR
JPL-TR-32-392 FERRATION O	N63-15277 12-08
BY THIN MAGNETIC FILMS AFCRL-63-57	NA3-15450 12-25
HICROMINIATURIZED SOLID-STATE	
FERROELECTRICS - MICROWAVES, NONLINEAR DIELECTRIC CONSTANT	ELECTROSTRICTION AND
S-528 EFFECT OF SYMMETRY IN PERIODI	
	The second secon

NOMINIFORM SECTION OF COAXIAL TRANSMISSION LINE AS IMPEDANCE MATCHING NETWORK FOR MICRONAVE FREQUENCIES

MICROWAVE ANTENNA PIBMRI-1113-63	N63-16457	14-24	INTERACTION OF HIGH INTENSITY ELECTROMAGNETING FIELD OF MICROWAVE FREQUENCY WITH LOW DENSITY	
HYDRODYNAMIC EFFECTS PRODUCED B	Y PULSE MICR	OWAVE	PLASMA RADC-TDR-63-240 N63-22404	23-24
DISCHARGES AVCO-EVERETT RES. REPT138	N63-16511	14-11	MICROWAVE RESEARCH - ACQUISTIC WAVE AMPLIFICA	
		131327	OPTICAL MASERS, FERRITE MONLINEAR PROPAGATIO	IN THE
GATED MICROHAVE RADIOMETER FOR I TEMPERATURE DURING PLASMA AFTER			ML-1060 N63-22911	
PLASMA RES. LAB. TECH. REPT.7	N63-16886	14-15	MICROWAVE STUDIES OF SEMICONDUCTING DIAMONDS CONDUCTIVITY BY CAVITY PERTURBATION THEORY	21.19
MICROWAVE PLASMA PROBE FOR STUDY			AFCRL-63-378 N63-23347	24-09
PLASMAS AND INERT GASES			MICROWAVE COMMUNICATIONS LINK PERFORMANCE	
AFCRL-63-123	N63-17474	15-24	TDR-269/4111/-1 N63-23576	24-08
MICROWAVE RESEARCH - ELECTROMAGE AND MATERIAL RESEARCH. MICROWAVE			MICROMAVE APPARATUS HALL EFFECT DEVICES & TUNNEL DIODES FOR MILL	IMETER
NETWORK THEORY, AND ELECTRONICS	100001111111		WAVE FREQUENCIES	
R-452.23-63	N63-17522		NEW YORK TONGS OF ANY	06-09
SECOND HARMONIC GENERATION USING MATERIALS WITH MICROWAVE RESONAL		TIC	MICROWAVE PHASE COMPARATOR FOR MEASURING PHA- BETHEEN TWO SIGNALS OF SAME FREQUENCY	SE
EFFICIENCY FREQUENCY DOUBLER	N63-17623	16-25	N63-13709	08-08
	na Sala Francisco	3 - 300 / 1	MICROWAVE APPARATUS, HARMONIC GENERATORS, MI	XERS,
FREQUENCIES - ACOUSTICS	N63-18240	17-23	AND DETECTORS FOR MILLIMETER WAVE RESEARCH AFCRL-62-174 N63-14734	11-08
REFLECTION OF INCIDENT WAVE FROM		E	SOLID STATE MICROWAVE DELAY LINE	
SHORTED END OF RECTANGULAR WAVE(MICROWAVEGUIDE PROPAGATION	SUIDE -		RADC-TDR-63-149 N63-17116	15-25
TDR-169/3230-22/TN-3	N63-18805	18-24	MICROWAVE APPARATUS USING SEMICONDUCTOR MICROELECTRONICS N63-17356	15-00
MICROWAVE RESONANCE INVESTIGATION			TWO-MILE LINEAR ACCELERATOR PROJECT - MICROM	
MATERIALS HAVING SINGLE CRYSTAL EARTH METALS & TRANSITION ELEMEN		KAKE	APPARATUS, INSTRUMENTATION, AND KLYSTRON	
AND DESCRIPTION OF STREET OF STREET	N63-19415	19-23	SLAC-10 N63-18150	16-10
AUTOMATIC SYSTEM FOR MEASURING	ICROWAVE PH	ASE	BEAM-PLASMA MICROWAVE INTERACTION AND LASER STIMULATED THERMIONIC EMISSION - ELECTRON TU	
SHIFT - PLASMA FLUX MEASUREMENT AFCRL-63-155	N63-19422	19-24	EE-560 N63-19140	18-23
RADIO DUCT /ABNORMAL MICROWAVE T	RANSMISSION	/ ON A	MICROWAVE OSCILLATOR FOR SPACE VEHICLE POWER	
WEATHER RADAR PLAN POSITION INDI	CATOR /PPI/ N63-19721	19-21	SOURCE W-J-61-336AR24 N63-20664	20-08
5.524C*12(6)(4) - (1)(6)			THE STREET AND THE STREET OF T	
MICROWAVE MEASUREMENTS OF PLASMA AFCRL-63-161	N63-20335	20-24	MICROMAVE ATTENUATION INTRINSIC ATTENUATION OF MICROWAVE NETWORK I	
GATHERING MICROWAVE PROPAGATION	AND TRANSMI	SSION	TERMS OF SCATTERING COEFFICIENT N63-21854	22-23
DATA FOR AIRBORNE COMMUNICATIONS	SYSTEMS N63-20591	20-08	HICROWAVE RADIATION	
FAST DIELECTRIC CONSTANT DETERMI			MATCHING AND ABSORBING MATERIALS FOR MICROWA RADIATION - STRATIFICATION AND REFLECTION	VE
MICROWAVE ABSORBER MATERIALS			RADC-TDR-63-141 N63-14504	10-25
RADC-TDR-63-241	N63-20791	21-09	CHRONIC EXPOSURE OF DOGS TO MICROWAVE RADIAT	ION OF
SMALL SIGNAL PROPERTIES OF MINIA DIODES FOR USE IN ELECTRONIC EQU		AVE	24,000 MEGACYCLES AND POWER DENSITY OF 20 MW. RADG-TDR-62-604 N63-14849	
HDL-TR-1140	N63-20833	21-09	7	
DESIGN OF MICROWAVE BROADBAND EQ	UALIZERS CO	MPOSED	MICROWAVE RADIATION INTENSITY AT CYCLOTRON RESONANCE IN COLD PLASMA - NEGATIVE TEMPERAT	
OF CASCADED TRANSMISSION LINES PIBMRI-1018-62	N63-20961	21-09	IPPJ-6 N63-15867	13-24
DESIGN OF GAS MICROWAVE DUPLEXER			BREAKDOWN UNDER HIGH POWER PULSING MICROWAVE RADIATION - DISCHARGE GROWTH IN AIR AND SULF	
EFFICIENCY	467-3177	21112	HEXAFLUORIDE	
RADC-TDR-63-210	N63-20967	21-24	RADC-TDR-63-201 N63-18151	16-23
MICROWAVE PROPERTIES OF FERROLLE CONSTANTS OF STRONTIUM TITANATE	CTRICS - EL	ASTIC	ARC DISCHARGE ORIVEN SHOCK TUBE DEVELOPMENT - MICROWAVE RADIATION EMISSION FROM AERODYNAMIC	
AFCRL-62-594	N63-21220	21-19	PLASMA N63-19038	18-09
NON-EUCLIDEAN GEOMETRY TO REPRES			MICROWAVE RADIATION EFFECTS ON IONIZED GAS B	EHIND
SINGLE FREQUENCY MEASUREMENTS IN AFCRL-63-37	MICROWAVE I		NORMAL SHOCK WAVE	18-24
ELECTRON RESONANCE SPECTROMETER		U1 L 78	NONEQUILIBRIUM PLASMA FLOW, MICROWAVE RADIAT	ION-
GENERALIZED FEEDBACK MICROWAVE O	SCILLATOR	22.00	AND BACKSCATTERED RADIATION ASSOCIATED WITH	язиол
RADC-TDR-63-297	N63-22067	(T. (C.T.)	REENTRY PHYSICS GDA-63-0173 N63-20292	20-13
MEASUREMENT OF ELECTRON DENSITY THAT VARIES IN ONE DIMENSION BAS			EFFECTS OF RADAR ON HUMAN BODY - MICROWAVE	DASIA
SIGNAL REFLECTION FROM PLASMA		22-24	RADIATION EFFECTS N63-20589	
		855.00	NONTHERMAL RADIO NOISE FROM JUPITER - EMISSI	
HICROWAVE AND QUANTUM ELECTRONIC THEORY	N63-22275	ND 23-09	INTENSE RADIO WAVES AND HIGH LEVELS OF MICRO RADIATION	MAVE

MICROWAVE AND QUANTUM ELECTRONIC CIRCUITS AND THEORY 03-02275 23-09

24

25

09 08 ER

08 -08 -25

-10

-23

-08

-23

-25 OF 12 -16

-24

5-23

8-09 IND 8-24 N, 0-13 0-16 OF

	R-60 HOSTA HA HOLDINA Y N63-214	425 22-05	WAVE SIGNAL GENERATORS 439 N63-18712 17-24
	MICROWAVE DISCHARGES M63-219		PLASMA GENERATION AND MEASUREMENTS - LANGMUIR PROBES AND MICROWAVE RESONANT CAVITY FOR MERCURY
	MICROWAVE & PLASMA INTERACTION - THEORET OF NONSTEADY ASPECTS OF PLASMA RESPONSE		ARC DISCHARGE - MICROWAVE SPECTRUM N63-18713 17-24
	MICROWAVE RADIATION R63SD78 N63-22	ACTIVATION	MICROWAVE PLASMA MEASUREMENTS FOR VERIFICATION OF MAVE THEORY AND MEASURING PLASMA PARAMETERS — MICROWAVE SPECTRUM STUDY N63-10714 17-24
	MICROMAVE EFFECT ON CARDIOVASCULAR SYSTEMEALTHY PERSON JPRS-21067 N63-224	435 23-16	ELECTRON CONCENTRATION MEASUREMENT TECHNIQUES IN EXHAUST OF SOLID FUEL ROCKET ENGINE WITH MICROWAVE RADIATION - MICROWAVE SPECTRUM STUDY
HI	ICROWAVE SCATTERING FROM WAKES OF HYPER	BUELOCITY	N63-10715 17-24
	PROJECTILES - ANALYTICAL METHODS AE-62-0218-M N63-121	04_21802	THERMIONICALLY EMITTING PARTICLES IN ROCKET EXHAUSTS - MICROWAVE SPECTRUM STUDY N63-18716 17-24
	DETERMINATION OF ELECTRON DENSITY AND CO FREQUENCY OF PLASMA CYLINDER BY MEASURING		ELECTROMAGNETIC RADIATION THEORY AND MICROWAVE
	SCATTERING OF MICROWAVES RR-TR-63-14 N63-224	459 23-24	SPECTROSCOPY AFCRL-63-169 AFCRL
	MICROWAVE SCATTERING FROM CYLINDRICAL NI PLASMA, SEEDED WITH SODIUM, POTASSIUM, I ARL-63-159 N63-22:	& CESIUM	BROAD-BAND MICROWAVE SPECTROMETER - PERFORMANCE & USE IN MEASURING ATTENUATION, REFLECTION, AND PRESSURE BROADENING OF MOLECULAR TRANSITIONS N63-23404 24-15
MI	ICROMAVE SPECTRUM MICROMAVE SPECTRA, STRUCTURE AND DIPOLE DIFLUORODIAZINE HAVING CIS MOLECULAR STI N63-174	RUCTURE	MICROWAVE TUBE THEORETICAL AND EXPERIMENTAL INVESTIGATION OF LINEAR BEAM MICROWAVE TUBES - KLYSTROMS AND
	RELATIVE INTENSITY MEASUREMENTS IN MICRO	OWAVE	ELECTRON BEAMS EE-556 N63-16016 13-09
	SPECTROSCOPY N63-176 SYNTHESIS, MICRONAVE AND MASS SPECTRA, MOLECULAR STRUCTURE OF SULFUR MONOFLUOR	AND	RELATIVISTIC STUDY OF LLEWELLYN ELECTRONIC GAR AND ITS APPLICATION TO DIODES AND KLYSTRONS - MICROWAVE TUBES
	N63-17		EE-525 1000 1000 1000 1000 N63-16017 13-09
	EXTENSION AND DEVICE IMPROVEMENT IN MICE SPECTRUM BY ANALYSIS OF ELECTRON BEAM OF SOLID STATE DEVICES, AND PLASMAS		RESPONSE OF KLYSTRONS TO NANOSECOND PULSES - HIGH POWER AMPLIFIERS, ELECTRON BEAM BALLISTICS, MICROMAYE TUBE
	MDL-Q4 N63-187	701 17-09	EE-542 AA B ROST NELL N63-1601813-09
	MULTIPLE COUPLED LADDER FOR BACKWARD WAY OSCILLATORS AT MILLIMETER WAVELENGTHS - SPECTRUM N63-187		NANOSECOND STUDY - RESPONSE OF MICROWAVE TUBE RESONANT CAVITY TO FREQUENCY OF IMPUT PULSE WITH GAUSSIAN ENVELOPE
	SMOOTH SLOW MAVE CIRCUITS FOR MILLIMETER MAYELENGTHS - DIELECTRIC CIRCUITS - MICH SPECTRUM STUDY N63-18	ROWAVE	EE-541 N63-16019 13-09 BALLISTIC ANALYSIS OF HODULATED ELECTRON BEAMS - GAP & DRIFT CALCULATIONS FOR TWO CAVITY KLYSTRON -
	HIGH FREQUENCY AMPLIFIER - INTERACTION (SPIRALING ELECTRON BEAM & UNLOADED WAVE	OF	EFFECT OF VELOCITY FILTER GAP - MICROWAVE TUBE EE-547 N63-16020 13-09
	FIELDS - HICROMAVE SPECTRUM N63-187 FAST CYCLOTRON AND NEGATIVE ENERGY SYNCE	704 17-09	REDUCTION OF SPURIOUS OUTPUT SIGNALS IN HIGH POWER KLYSTRONS - RADIOFREQUENCY INTERFERENCE IN MICROWAVE TUBES
	WAVE COUPLING IN AXIALLY SYMMETRIC ELECT FIELD - MICROWAVE SPECTRUM STUDY		EE-540 29141 AND TOBLERS - TARKE N63-1602141 13-09
		705 17-09	LINEAR BEAM MICROWAVE TUBE - ELECTRON FLOW IN A BRILLOUIN BEAM - STL-100 ELECTRON GUN - KLYSTRON
	MILLIMETER WAVE AMPLIFIERS AND OSCILLATO		RADIO FREQUENCY CURRENT DISTRIBUTIONS IN A
	MAGNETO-ELECTRIC BEAM COMPRESSION TO OBT		BRILLOUIN BEAM - MICROWAVE TUBES EE-546 N63-16070 13-09
	STUDY STATES OF SECTION BEAM - MICROWAY	707 17-09	ELECTRON BEAM LANINAR FLOW IN MAGNETIC FIELD - BRILLOUIN BEAM - STL-100 ELECTRON GUN
	SPACE CHARGE EFFECTS IN CYCLOTRON WAVE OF COMPED PARAMETRIC AMPLIFIERS - MICRON SPECTRUM STUDY N63-187	WAVE	EE-539 ION NEUTRALIZATION OF SPACE CHARGE IN BRILLOUIN
	PUMP ENERGY REDUCTION REQUIRED FOR SOLIC RUBY LASER BY GAMMA RAY DAMAGE AND HIGH	STATIC	BEAMS - MICROMAVE TUBES EE-545 N63-16072 13-09
	SINGLE SIDE-BAND GENERATOR	709 17-25	AUTOMATED FIELD-PLOTTING OF ELECTRIC FIELD STRENGTH VERSUS POSITION WITHIN RESONANT CAVITY USING PERTURBATION TECHNIQUES - MICRONAVE TUBES
	QUANTUM MECHANIC TUNNELING THROUGH THIN BARRIERS - SOLID STATE STUDY - MICROMAVE STUDY N63-187	E SPECTRUM 710 17-25	MICROWAVE TUBES - POWER MEASUREMENTS ON THE SAS 61
	SOLID STATE MASER MATERIALS FOR USE AT	VANDEDIH 90	KLYSTRON 249 4 MOTO 24800 - VARIOUS ART 228000 MM
	WAVELENGTHS - MICROWAVE SPECTRUM STUDY N63-187	NO 2223360 -	MICRONAVE PHOTOTUBE AND LIGHT HODULATOR W-J-63-610R12 N65-16344 14-15
	PLASHA WAVE PROPAGATION IN WAVEGUIDES AN INTERACTION WITH ELECTRON BEAMS FOR MILL		HIGROMAVE TUBE - GENERATOR & DETECTOR INTERCHANGE

OPTICS OF MILLIMETER WAVES AND RADIO ASTRONOMY JPRS+16666 03-23

IN IMPEDANCE MEASUREMENT PIBMRI-1149-63	N63-16510	14-09	INDEX, INTENSITY, AND POLARIZATION AFCRL-63-233 N63-13684	08-23
HYDRODYNAMIC THEORY OF HIGH COOLING BY VORTEX FLOW RADC-TDR-63-214		TUBE 19-13	MIE SCATTERING AND ABSORPTION OF ELECTROMAGE RADIATION BY ALUMINUM AND MAGNESIUM OXIDES SSD-TDR-62-127, VOL. VI N63-18839	18-25
HIGH POWER MICROWAVE TUBE CO PRESSURE DROP, BURNOUT, AND			MIGRATION SINGLE BOUNDARY MIGRATION IN DEFORMED CRYSTA	LS OF
MEASUREMENTS RADC-TDR-63-242	N63-19534	19-13	ALUMINUM ARDD-2205-4 N63-10450	01-18
HIGH POWER X-BAND GENERATOR	STUDY - MICRONA	VE TUBE	HIGRATION OF UNDERWATER EXPLOSION BUBBLES	
TECHNIQUES RADC-RAL-TH-63-7	N63-19622	19-09	NAVORO-4185 N63-13085 THEORETICAL STUDY OF SINGLE VACANCY MIGRATIC	07-11
K-BAND TRAVELING-WAVE TUBE ASD-TR-63-7-741, VOL. 2	N63-20582	20-09	CUBIC AB ALLOYS ASD-TDR-63-215 N63-14306	10-25
KU-BAND TRAVELING-WAVE TUBE	1.75-7-7-7-7-7		FISSION PRODUCT MIGRATION INTO AND RELEASE F	1834
TIS-R62ELM-186-10	N63-20596	20-09	IRON-20 W/O CHROMIUM ALLOY BMI-1611 N63-14719	11-18
LINEAR-BEAM MICROWAVE TUBE - ACTION OF KLYSTRONS	VELOCITY FILTE	RING	FREE BOUNDARY MIGRATION AND FRACTIONATION OF	CELL
EE-558	N63-21632	22-23	MIXTURES - SEDIMENTATION AND ELECTROPHORESIS UCRL-10640 N63-15319	
LINEAR-BEAM MICROWAVE TUBE -		AD10	MATERIAL INTERACTION AND MIGRATION IN CAMERA	-15777
FREQUENCY POWER INTO OUTPUT		22-23	TUBES - ORTHICON ASD-TDR-62-78 N63-15508	12-17
LINEAR BEAM MICROWAVE TUBE - ELECTRON BEAM ANALYZER	MODIFICATION OF N63-21634	22-23	MIGRATION OF UNDERWATER EXPLOSION BUBBLES NO. TR-62-184 No.3-20546	20-11
LINEAR BEAM MICROWAVE TUBE - ELECTRON BEAM USING SECOND OF FOR FIRST ORDER NONLINEARITY	RDER TERMS TO A		MILITARY SPACECRAFT BIBLIOGRAPHY - MANNED MILITARY MISSIONS IN O SPACE	RBITAL
DIRECT CURRENT SCALLOP EFFECT	ON RADIO FREQU	JENCY	SB-63-27 N63-22807	23-32
MODULATION IMPARTED TO OTHER			MILITARY ASPECTS OF MANNED SPACE FLIGHT - CO AND CONTROL OF STRIKE FORCES N63-23203	PHAND 24-32
MAGNETICALLY SHIELDED ELECTRON BE	EAM	22-23	MANS UTILITY IN MILITARY SPACE MISSIONS N63-23233	24-30
AMPLIFICATION BY PULSED MICRO NANOSECOND PULSE RANGE	N63-21637 DWAVE AMPLIFIERS N63-21641	100	MILITARY TECHNOLOGY MILITARY INTELLIGENCE AND COMBAT SURVEILLANC VISUAL PERCEPTION N63-19253	E - 18-01
NOISE BEHAVIOR OF ELECTRON BEHICROWAVE TUBES	AMS IN RANGE OF N63-21642	22-23	SENSOR OUTPUT DISPLAY DESIGN - MILITARY TECHNOLOGY - VISUAL PERCEPTION PROBLEMS N63-19255	18-15
DCOURSE GUIDANCE F GUIDANCE SYSTEM			SOIL STABILIZATION CAPABILITIES FOR MILITARY	
GUIDANCE ANALYSIS OF EARTH-NO VEHICLE, BURNOUT ERROR, MIDCO	ON LIBRATION PO	INT	PURPOSES N63-20448	20-12
RAL-TH-63-2	N63-13436	08-29	HUMAN PERFORMANCE FOR MILITARY OPERATIONS IN SPACE - AEROSPACE MEDICINE N63-20557	20-14
MARINER II SPACECRAFT - TRAJE VENUS, TRACKING, AND MIDCOURS JPL-TR-32-395	CTORY, INJECTION SE CORRECTION N63-13596	N, 08-29	TRANSPARENT COMPOSITE PLASTIC FILMS FOR MILI PACKAGING	TARY
EMERGENCY NAVIGATION PROCEDUR CORRECTIONS FOR SPACE VEHICLE			RIA-63-2482 N63-22822 MILITARY AND SCIENTIFIC OBJECTIVES REQUIRING	23-19
THE MOON NASA-TN-D-1765	N63-14028	09-22	DECELERATORS N63-23327	24-02
GUIDANCE OF SPACE VEHICLES -		10.00	CF GALAXY	
TERMINAL GUIDANCE PREDICTION OF VELOCITY REQUIR TIME RESPONSE ABORT TRAJECTOR GUIDANCE OF LUNAR FLIGHT			MILL RATIO CONVERGENT ASYMPTOTIC EXPANSION FOR MILL RATI NORMAL PROBABILITY INTEGRAL IN TERMS OF RATI FUNCTIONS N63-11639	
NASA-TN-D-1655	N63-15052	11-29	EXPANSION OF MILLS RATIO FOR NORMAL PROBABIL	1757 (78)
OPTIMUM THRUST PROGRAMMING FO MIDCOURSE GUIDANCE	R MINIMAL FUEL N63-15630	12-29	INTEGRAL N63-23004	24-20
PERTURBATION CONTROL FOR MICC SPACE TRAJECTORY PROGRAM	OURSE GUIDANCE		MILLIMETER MILLIMETER SINGLE SIDE-BAND GENERATOR MATT-167 N63-15747	12-25
AIAA PAPER-63-222	N63-17924	16-22	MILLIMETER WAVE	CAPE
MIDCOURSE TRAJECTORY-CORRECTI FOR RANGER LUNAR LANDING VEHI NASA-CR-50727	CLE N63-19783	YSTEM 19-27	CF MICROWAYE SPECTROMETER FOR MEASURING MILLIMETRIC WAVE PROPAGATION N63-10785	02-15
THE RESERVE OF THE PROPERTY OF				

HIE SCATTERING FUNCTION
MIE SCATTERING FUNCTION FOR SPHERICAL PARTICLES
APPLIED TO THE CONTINUUM OF COMETS - REFRACTIVE

-23

-25 OF -18 -11

-18 LL -11

-17 -11 TAL -32 ND -32

-30

-01

1-15 1-12 1-14 17 1-19

AND L L-20

-20

2-25

2-15

3-23

PRODUCTION OF MILLIMETER & SUBMILLIMETER WAVES BY INJECTION OF ELECTRON BEAMS INTO MAGNETIC FIELDS AFCRL-62-718 N63-14217 09-2:	
HIGH-POWER MILLIMETER-WAVE GENERATOR N63-14471 10-00	HICROPROBE OF RARE HINERAL IN NORTON
MICROWAVE APPARATUS, HARMONIC GENERATORS, MIXERS,	MAGNETIC SUSCEPTIBILITY OF SIDERITE AND OTHER
AND DETECTORS FOR MILLIMETER MAYE RESEARCH AFCRL-62-174 N63-14734 11-03	MINERAL FERROUS ALLOYS
MILLIMETER WAVE AMPLIFICATION BY RESONANCE	ANALYSIS OF ROCKS AND MINERALS BY REFLECTED INFRARED RADIATION N63-16189 13-25
RADC-TDR-63-84 N63-15062 11-0	DETERMINATION OF TRACE ELEMENTS IN MINERALS AND
AMPLIFICATION OF ELECTROMAGNETIC RADIATION IN 3.4 HILLIMETER WAVE RESONANT CAVITY FILLED WITH HYDROGEN CYANIDE GAS	ORES BY FLUORESCENT X-RAY SPECTROGRAPHY BM-RI-5966 N63-17888 16-18
RADC-TOR-63-253 N63-18625 17-0	SPHERULITE DEFORMATION BY LOW-ANGLE LIGHT
MULTIPLE COUPLED LADDER FOR BACKWARD WAVE	SCATTERING 04407 241444 14444
OSCILLATORS AT MILLIMETER NAVELENGTHS - MICROWAVE SPECTRUM N63-18702 17-0	ANALYTICAL TECHNIQUES FOR HYDROCARBONS IN MINERAL
SHOOTH SLOW WAVE CIRCUITS FOR HILLIMETER	NASA-CR-51999 N63-23011 24-07
MAYELENGTHS - DIELECTRIC CIRCUITS - MICROWAVE SPECTRUM STUDY N63-18703 17-0	100-104-124-104-124-124-124-124-124-124-124-124-124-12
THE PROPERTY OF THE PARTY OF TH	MINERALS MANETUNIN TO TROPERARY HER RAY TELLING
INTERACTION BETWEEN MULTIPLE ELECTRON BEAMS IN MILLIMETER WAVE AMPLIFIERS AND OSCILLATORS -	BM-RI-6313 N63-23618 24-19
MICROWAVE SPECTRUM N63-18706 17-0	CF HYDRAULIC FLUID AV THEFT TO THE STATE OF
SOLID STATE MASER MATERIALS FOR USE AT MILLIMETER WAVELENGTHS - MICROWAVE SPECTRUM STUDY	CF LUBRICANT SHIGHT REMOTENTA
N63-18711 17-2	
PLASMA WAVE PROPAGATION IN WAVEGUIDES AND WAVE	COSMIC MINERALOGY - NEW BRANCH OF SCIENCE NASA-TT-F-170 N63-19863 19-29
INTERACTION WITH ELECTRON BEAMS FOR MILLIMETER WAVE SIGNAL GENERATORS N63-18712 17-24	MINIATURIZATION
MONEY HATCH DECEMBER 1124 FOR A 1 PROTECTION OF THE PROTECTION OF THE PROPERTY	SA MICROMINIATURIZATION
TECHNIQUES FOR SUPERHETERODYNE RECEIVERS ABOVE ON HUNDRED GIGACYCLES - MILLIMETER MAVE DEVICE	SELWS-E-104 N63-10208 01-15
MASA-CR-50881 N63-20195 20-0	RADIO FREQUENCY INTERFERENCE AND ENVIRONMENTAL
MILLIMETER WAVELENGTH RADARS TO STUDY PLASMA EFFECTS OF HYPERSONIC VELOCITY PROJECTILES	TESTING OF A MINIATURE SOLID STATE POWER SUPPLY NASA-CR-50392 N63-18457 17-06
REENTRY EFFECTS TR-63-2178 N63-21552 22-24	SMALL SIGNAL PROPERTIES OF MINIATURE MICROWAVE
	DIODES FOR USE IN ELECTRONIC EQUIPMENT
VIDEO DETECTION TECHNIQUES APPROPRIATE FOR MILLIMETER AND SUBMILLIMETER RANGE OF SPECTRUM	HDL-TR-1140 X 0 123 H JH - E4 ALE TV N63-20833 1 21-09
RADC-TDR-63-365 N63-22406 23-0	MINIMUM ORAG NEWTON IMPACT LAW AS MODIFIED TO EXPLAIN THE
BEAM-PLASMA AMPLIFIER IN MILLIMETER WAVELENGTH	PROBLEM OF MINIMIZING DRAG OF SLENDER BODY OF
RADC-TDR-63-368 N63-22448 23-24	REVOLUTION - Y JACOL STANDARD - SACRARD MASSES
MILLIMETER WAVELENGTH OBSERVATIONS OF VENUS & THE MOON N63-22540 23-0	DETERMINATION OF BODY SHAPES OF MINIMUM DRAG USING
CONSTRUCTION AND FEASIBILITY OF MILLIMETER WAVE	N63-13833 09-20
TUBE AMPLIFIERS USING ELECTRON GUN N63-23515 24-0	MENTONIAN SLENDER-BODY THEORY OF FLOW AROUND MINIMUM DRAG SHAPES N63-13834 09-20
ILLLING MACHINE	SLENDER BODIES OF MINIMUM DRAG IN NEWTONIAN FLOW
CF MACHINE TOOL	DI-82-0224 N63-15521 12-11
INERAL SA ARACOMITE	SLENDER, TWO-DIMENSIONAL BODIES OF MINIMUM DRAG AT
SA BARITE	HYPERSONIC SPEEDS DI-88-0232 N63-15753 12-02
SA CALCITE SA CONDIERITE	TRANSVERSAL CONTOUR OF MINIMUM DRAG FOR SLENDER
SA CARNET ON THE SAME ALLOW BY THE WORLD WITH BE RANGED BY	BODIES AT HYPERSONIC SPEED
SA GENLENITE CONTROL OF A MANAGEMENT CAN SALES IN	D1-82-0242 1/4 N63-17400 15-02
SA LIRESTONE	SLENDER, AXISYMMETRIC POWER BODIES HAVING MINIMUM
SA MONTICELLITE SA PEARLITE	ZERO-LIFT DRAG IN HYPERSONIC FLOW DI-82-0275 N63-20314 20-02
SA SIDERITE	THE THE CHEED CHARLEST TO WELL AND THE STATE OF THE STATE
SA TALC SA MORTZIYE MENURUM AND MUTTHER MIT THE RANGE AND	SLENDER, TWO-DIMENSIONAL POWER BODIES MAYING MINIMUM ZERO-LIFT DRAG IN HYPERSONIC FLOW
CF ORE CF ROCK OF SOLL OF SO	DI-204-24 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
CF SOIL	CF SATELLITE TRACKING
NEW RESEARCH TECHNIQUES FOR MINERAL ENGINEERING PROBLEMS	SPACECRAFT TRACKING - DEEP SPACE INSTRUMENTATION
MITS-49 N63-12458 06-0	FACILITY 341821M N63-10240 01-10
OXYGEN SUPPLY FROM SPACE MINERALS FOR PERSONNEL SUPPORT N63-15270 12-10	TRACKING AND DATA ACQUISITION FROM SPACECRAFT USING MINITRACK NETWORK N63-11144 03-09

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SA LITTLE JOHN MISSILE

GROUND SUPPORT OF NASA SPACE PROGRAMS - TRACKING AND COMMAND TECHNIQUES - MINITRACK, DEEP SPACE STATIONS, MERCURY NETWORK, DATA PROCESSING CENTERS NA3-12839 06-08 MINITRACK OPTICAL TRACKING SYSTEM N63-16949 14-08 CALIBRATION SYSTEM OF MINITRACK SATELLITE TRACKING N63-16950 14-08 SPACECRAFT TRACKING AND DATA ACQUISITION - BAKER-NUNN CAMERA NETWORK, MINITRACK, DEEP SPACE NETWORK AND MANNED SPACE NETWORK N63-20080 MADIATION RESISTANT SOLAR CELLS - N ON P CELLS
WITH BASE REGION IMPURITY GRADIENT WHICH
ACCELERATES MINORITY CARRIERS TOWARD THE JUNCTION EOS-2080-IR-1 N63-13961 09-06 HIGH AND LOW TEMPERATURE TEST OF AEROJET UTILITY BSD-TDR-62-331 N63-12450 06-30 UTILITY VAN FOR TRANSPORT OF MINUTEMAN SECOND STAGE OPERATIONAL ENGINES N63-12451 06-30 BSD-TDR-62-329 STRUCTURAL TESTS OF UTILITY VAN FOR SECOND-STAGE MINUTEMAN ENGINE BSD-TDR-62-330 N63-12452 06-33 FLIGHT DATA HANDLING AND ANALYSIS PLAN FOR WEAPON SYSTEM 133A ROCKET MOTOR M57 MINUTEMAN STAGE III 22-04 MTD-198-44 N63-22147 MIRROR SA PARABOLDIDAL HIRROR SA ROTATING HIRROR CF REFLECTOR CONTROLLED THERMONUCLEAR RESEARCH N63-10141 01-23 LECTURES ON FUSION POWER - PLASMA CONFINEMENT N63-10319 01-24 OPTICS DEVELOPMENT FOR 43-INCH LUNAR TELESCOPE. PYROMETER DEVELOPMENT FOR LUNAR TEMPERATURE MEASUREMENT AFCRL-62-1100 03-29 OPTICAL SCANNING USING ELECTRICALLY-MODULATED MEMBRANE MIRRORS - APPARATUS AND EXPERIMENTAL 06-09 RESULTS N63-12808 EAST-WEST ASYMMETRY IN THE FLUX OF MIRRORING GEOMAGNETICALLY TRAPPED PROTONS UCRL-10587 N63-14081 RADIOMETRY OF CURVED MIRROR GAS BEAM LASERS N63-15737 AROD-3309-2 IBM 7090 COMPUTER PROGRAM FOR DESIGN OF CONICAL SECTION OPTICAL LENS AND MIRRORS 16-23 LA-2877 DCX-2 APPARATUS - PLASMA GENERATION BY INJECTION AND DISSOCIATION OF 600-KEY HYDROGEN MOLECULAR IONS IN MAGNETIC MIRROR FIELD N63-19148 CHROMATIC ABERRATION IN A ZONED CYLINDRICAL MIRROR N63-20038 19-23 OPTICAL TRACKING USING MEMBRANE-TYPE OBJECTIVE 20-15 N63-20349 DEVICE FOR MEASURING ABSOLUTE COEFFICIENTS OF MIRROR REFLECTION FTD-TT-62-1510/182 N63-23637 24-15 MISSILE SA AIR TO SURFACE MISSILE SA BALLISTIC MISSILE SA BULLPUP-B MISSILE

SA PERSHING MISSILE SA POLARIS A3 MISSILE SA POLARIS MISSILE SA SERGEANT MISSILE SA TARTAR HISSILE SA TRAILBLAZER MISSILE CE ROCKET TRENDS IN MISSILE AND SPACE RADIO TELEMETRY 01-08 WGL PAPER-4 N63-10003 MISSILE DESIGN FOR THE EFFECTS OF WINDS ALOFT N63-10384 01-30 SPRAYABLE, STRIPPABLE, PROTECTIVE COATING FOR AIRCRAFT, ROCKETS AND MISSILES N63-10474 01-19 RADIO FREQUENCY TRANSMISSION THROUGH A PLASMA GENERATED IN NOSE REGION OF HIGH VELOCITY GROUND TO-AIR MISSILE N63-10687 02-08 X-RAY IMAGE SYSTEM FOR NONDESTRUCTIVE TESTING OF SOLID-PROPELLANT MISSILE CASE WALLS AND WELDMENTS N63-10713 WAL-TR-142-5/1-4 02-17 MASS UNBALANCE IN A SIMPLIFIED AUTOSPIN SYSTEM EFFECT ON MISSILE TRAJECTORY T&AM-206 N63-10716 02-20 MISSILE MOTION ANALYSIS T6AM-210 N63-10719 02-20 SHELL STRUCTURE INSTABILITY - SYMPOSIUM, 1962 NASA-TN-D-1510 N63-10804 02-34 STABILITY PROBLEMS IN MISSILE STRUCTURES N63-10806 02-34 SHELL STABILITY IN MISSILES AND SPACE VEHICLES N63-10808 02-34 MATERIALS THERMAL PROPERTIES AND ENVIRONMENTAL THERMAL SIMULATION SUPPORTING FACILITIES FOR MISSILES AND SPACE VEHICLES N63-10913 02-13 MISSILE RELIABILITY ESTIMATION N63-11161 03-20 THEORY AND ANALYSIS OF THE DYNAMIC STABILITY OF EXIBLE-BODIED MISSILES ASD-TOR-62-627 N63-11409 03-30 WIND TUNNEL INVESTIGATION OF JET BLOWING OVER A WINGLESS MISSILE BODY AT MACH 2.16, 2.48, AND 2.85 DTMB-AERO-1040 N63-11427 03-02 SONIC ANEMOMETER FOR STUDY OF TURBULENT WIND LOADING ON MISSILES AFCRL-62-1064 N63-11860 04-15 USE OF ENCODERS IN MISSILE AZIMUTH ALIGNMENT SYSTEMS RG-TR-62-8 N63-12371 06-22 FORCE STUDY OF SCALE MODEL XSM-64A NAVAHO MISSILE AND BOOSTER AT SUPERSONIC SPEEDS NASA-TH-X-16 N63-12548 06-02 PRESSURE STUDY OF SCALE MODEL MISSILE AND BOOSTER AT SUPERSONIC SPEEDS NASA-TH-X-17 N63-125 N63-12549 06-02 RADIO FREQUENCY ENERGY FIRINGS ON BRIDGEWIRE SQUIBS FOR MISSILE RADAR SYSTEMS N63-12956 07-26 RK-TR-63-1 SIMUL PRESSURE DISTRIBUTION ON IMPULSIVELY ACCELERATED SUPERSONIC WEDGE AS INSIGHT TO FLOW FIELDS OF MISSILE AND SPACECRAFT FLIGHT SH-42649 N63-13004 07-02 STATE AEROELASTIC DIVERGENCE OF SLENDER MULTISTAGE TEST VEHICLES RAIN N63-13059 07-30 SUBSO 58-62 MISSILE ATTITUDE DETERMINATION USING MAGNETOMETERS WITH SUN AND EARTH SENSORS

BOOME MAILZOIN

RG-TR-62-5	N63-13230 0	7-15 RECOGNITION THEORY APPLIED TO MISSIL IDENTIFICATION AND DECOY DISCRIMINAT		HE N
COMPATIBILITY OF LUBRICAN OXIDIZERS - ORGANIC FLUOR			3-20404	20-08
A62-13	OLIA TOUR TALESTON		SILE STRUC 3-20471	
DYNAMIC ANALYSIS OF LIQUI WITH APPLICATIONS TO TRAJ OF CONTROL IN MISSILE AND	ECTORY FAILURE AND LO		RAL BEHAV	10R
	N63-13631 0	8-23 NACA-RH-L53108A N63	3-20528	20-02
AERODYNAMIC CHARACTERISTI LOW ASPECT RATIO NACA-RM-A55L13B		INCLUDING CROSS COUPLING - STABILITY	AND CONT	
AERODYNAMIC HEATING TESTS	OF MISSILE STABILITE	RS DETERMINING GUIDANCE ACCURACY OF ALF	CONTRACTOR	
IN FREE JET AT SUPERSONIC NASA-TM-X-299	SPEEDS	USING PHOTOMULTIPLIERS AND FILTERS (OF ULTRAVI	
APPLICATION OF PHOTOELAST INDUSTRY - STRESS ANALYSI			DELS	21-08
BUCKLING OF MISSILE SHELL	STRUCTURES UNDER	PARAMETRIC PERFORMANCE DATA FOR INTE	ERCEPTOR	A Mark
TRANSIENT PRESSURE FURNIS IR-62-17	N63-14643 1		3-21684	22-04
NONDESTRUCTIVE TESTING OF PLASTIC MISSILE CASES		ED CLASSICAL ANALYTIC MECHANICS FOR SIN SPACE VEHICLE MOTION & PERFORMANCE -		
WAL-TR-142.5/2-1	N63-15420 1	2-17 MODELS OF MISSILE TRAJECTORY		23-11
STABILITY ANALYSIS OF CON PROPELLED MISSILES	TROL SYSTEM OF LIQUID N63-15547 1			(12.00 (20.00)
I-RAY IMAGE SYSTEM FOR NO		OF NASA-TN-D-2125 N65	3-23126	24-34
SOLID PROPELLANT MISSILE WAL-TR-142.5/1-3	N63-15955 1	3-17 MISSILE CONFIGURATION AERODYNAMIC CHARACTERISTICS OF CRUCI		
PLASMA WAVE EXCITATION BY INDUCTION - RADIO COMMUNI SPACE VEHICLES	CATION WITH MISSILES	AND EDGE FLAP CONTROLS AT SUPERSONIC SPI		06-02
AD-283830	N63-16914 1	4-24 FREE FLIGHT TEST OF TAILLESS MISSIL	CONFIGUR	RATION
TURBINE PUMP MISSILE PROP MACA-RM-E57J29			T RATIO 4	
ANNOTATED BIBLIOGRAPHY -		N 1 TALLY 12 ATM/TODAY CONTROL		THE RE
MID-FLIGHT AND REENTRY		STATIC STABILITY CHARACTERISTICS OF CYLINDER/FLARE-CYLINDER CONFIGURATIO RF-TR-63-14		16-02
COMPATIBILITY OF GREASE L FUELS AND OXIDIZERS FOR M		WIND TUNNEL TESTS OF WINGLESS LOW AS	SPECT RATI	OF LAKE
	N63-17832 1	6-17 FOLDING CONTROL MISSILE CONFIGURATIONACA-RH-AS8F30 N6:		20-02
AIR FORCE HYDRAULIC FLUID VEHICLES, AIRCRAFT, AND M		MISSILE CONTROL	WELSAS	
	N63-17839 1	MISSILES NO		01-20
SOLID FILM LUBRICANTS FOR OTHER WEAPON SYSTEMS		6-17 QUASI-LINEAR SUBSTITUTION METHOD FOR		
FLOW FIELD AND MISSILE BA EXHAUST - HEAT TRANSFER A		MOMENT INFLUENCE ON MODAL DAMPING OF BRL-MEMO-1466	3-19516	19-20
AIAA PAPER-63-179	N63-17925 1	6-13 CLOSED FORM SOLUTION TO LINEAR DIFFI EQUATIONS FOR APPLICATION TO MISSILE	ERENTIAL E CONTROL	PARTE P
DIFFERENCE BETWEEN MISSIL SENSITIVITY TO SUNLIGHT		NASA-TH-X-50813 No.	3-23030	24-09
AMC-RG-TR-63-12	N63-18029 1	6-04 MISSILE DESIGN	E4-Tes	E-E G-WJ
AVAILABILITY & LOCATION OF	F EXTRA-LARGE CAPACIT	Y CF MAGNUS EFFECT	E DESTEN	FOR
USED IN HIGH SPEED AIRCRA	FT & HISSILES	WINDS ALOFT	3-12920	07-30
UNDERWATER TRAJECTORIES F	M. R. L. SCHOOL STANDARD SCHOOL	2 This Land Mark Committee Ann and the Annual Committee A		
MONLINEAR MOTION EQUATION 8-898	S	ES - DYNAMIC LOAD FACTOR FOR MISSILE STR MASS-SPRING MATHEMATICAL MODEL USIN 9-22 FORCING FUNCTION - STRUCTURAL DYNAM	G THRUST	AS
SINULTANEOUS MISSILE LAUN	CHING - STATISTICAL	No.	3-16626	14-34
MALYSIS	N42-10704 1	9-10 CF LAUNCHER	190 250	在各种文學制度
MUN-01-30104	THE RESERVE OF THE PERSON NAMED IN CO. ASS.	MISSILE LAUNCHERS - FLEXIBLE LAUNCH		108-42
STATISTICAL ANALYSIS OF M	1221FE CURNCHIMP	SUPPORTED BY FLEXIBLE UNDERSTRUCTURE	E.	4-7-
STATISTICAL ANALYSIS OF M	1221FE CURNCHIMP	20 PARKED BY PLEXIBLE ONDERZINGCION	3-10722	02-34
STATISTICAL ANALYSIS OF M	N63-19785 1 IRCRAFT AND MISSILE PROTECTIVE COATINGS A	9-10 T6AM-214 N6: VACUUM-AIR MISSILE BOOST CONCEPT -	3-10722 ESTIMATION	N OF

MISSILE LAUNCHING FACILITIE	S AT CAPE CANAVE N63-16577		MISSION CONSTRAINTS IAS PAPER-63-85 N63-12901	07-29
UNCOOLED DEFLECTORS FOR MIS.	ERNODYNAMIC PROP		LUNAR ORBIT RENDEZVOUS SCHEME - HISSION ANA NASA-TN-D-1623 N63-15304	
OF ROCKET EXHAUSTS VITRO-2331-1-60	N63-18748	17-27	MANNED ORBITAL SPACE FLIGHT - OPERATIONS, S DESIGN, AND DEVELOPMENT OF CONCEPTS - SPACE DESIGN AND HISSION ANALYSIS N63-17401	CRAFT
MISSILE RANGE DESIGN OF WHITE SANDS MISSISSOR-62-1	LE RANGE DATA SY: N63-10076		GEMINI PROJECT - RENDEZVOUS SPACECRAFT MISS	
DOWNRANGE ANTIMISSILE MEASUR EFFECTS OF PLASMA AND WAKE	REMENT PROGRAM /	DAMP/ -	PLANNING NASA-CR-50458 N63-18413	17-32
MAGNETIC PROPAGATION DAMP-TM-62-13	N63-11564	04-08	ORBITAL FLIGHT HANDBOOK - CALCULATION OF PA ORBITS, MISSION AND GUIDANCE & CONTROL REQU NASA-SP-33, PT. 3 N63-21103	IREMENT
WHITE SANDS MISSILE RANGE CO SELWS-M-16	LIMATOGRAPHY N63-11603	04-21	LUNAR FLIGHT MECHANICS AND MISSION PLANNING NASA-SP-34, PT. 1 N63-21104	-111-1
MONTHLY & ANNUAL WIND DISTRI ALTITUDE FOR PACIFIC MISSILE	E RANGE	TION OF	MISSION CONTROL FOR MANNED SPACE FLIGHT	
NASA-TN-D-1569	N63-12003	05-21	N63-23227	24-32
REPAIR VERSUS REPLACEMENT IN AT MISSILE RANGE PMR-TM-61-12	N63-12810	06-01	METEOROID HAZARD TO NUCLEAR ROCKET SPACE VE MISSIONS LMSC-A303606 N63-23694	24-29
MISSILE GUIDANCE SYSTEM GROU		06-01	MISSION CONTROL CENTER	24-21
MOD III COMPUTING SYSTEM AT			S INTEGRATED MISSION CONTROL CENTER /IMCC/	711742
PACIFIC MISSILE RANGE MANUAL PMR-MP-60-7	N63-15884	DUCTION 13-10	MISSOURI MHITETOP PROJECT - PRECIPITATION FORMATION CUMULUS CLOUDS OF SUMMERTIME IN MISSOURI N63-19233	IN 18-21
WHITE SANDS MISSILE RANGE CHERDA-20	LIMATE CALENDAR N63-15949	13-10	MITOSIS	
ATMOSPHERE AT ATLANTIC MISSI		14-21	CF BIOLOGICAL CELL LIVING GRASSHOPPER NEUROBLASTS EXPOSED TO O MITOTIC DELAY	ZONE -
TIME SIGNAL SYNCHRONIZATION			SAM-TDR-63-39 N63-22981	23-16
FOR AUSTRALIAN MISSILE RANGE			MITRID PROJECT TWO-DIMENSIONAL FILTERING TECHNIQUE, OPTICS INTERFEROMETERS, FILTERS, AND A READOUT SYS	
TECHNICAL MANUAL UTILIZATION OPERATIONAL BALLISTIC MISSIL SUBSYSTEM			N63-11864	04-23
TOR-169/3741-08/TN-2	N63-20143	20-01	MIXED FLOW AND DIRECT BLUNT BODY INTEGRAL METHOD	
PROJECT SCORPIO - A PROPOSED IMPROVING ATLANTIC MISSILE R			SH-42603 N63-13003	07-02
CALIBRATING OPERATIONAL MISS			MIXING OF LAMINAR AND TURBULENT AXIALLY SYM COMPRESSIBLE FLOW PIBAL-756 N63-15963	METRIC 13-11
MISSILE SYSTEM MISSILE SYSTEM SAFETY - AN E	EVALUATION OF SYS	TEM	AXIAL- AND MIXED-FLOW TURBOMACHINES AND PUM	
TEST DATA /ATLAS MA-3 ENGINE R-5135		13-14	ANNOTATED BIBLIOGRAPHY BIB-9 N63-20054	20-11
WIND SHEAR RESPONSE FOR MISS PERFORMANCE	SILE SYSTEMS - FI	IGHT	AXISYMMETRIC HETEROGENEOUS MIXED FLOW PIBAL-787 N63-23183	24-11
LMSC-A003108 A	N63-16382	14-21	MIXER	24-11
HUMAN ERROR IN RELIABILITY T	N43-1727E	.E 15-14	MICROMAVE APPARATUS, HARMONIC GENERATORS, M AND DETECTORS FOR MILLIMETER WAVE RESEARCH	
ELECTRONIC HULTISYSTEM TEST	EQUIPMENT FOR MI	ISSILE	AFCRL-62-174 N63-14734	
AND ROCKET WEAPON SYSTEMS CR-63-547-43	N63-20599	20-09	S JET MIXING S LAMINAR MIXING	
RECOMMENDATIONS BY HUMAN FACE EVALUATORS DURING DEVELOPMEN			MIXTURE SA GAS MIXTURE	
RC-S-63-1	N63-20789	21-17	EFFECT OF STORAGE FOR 18 MONTHS ON LUBRICAT GREASE COMPATIBILITIES	ING
AERODYNAMIC ANGLE OF ATTACK SYSTEMS	METERS IN MISSIN	.E 23-02	RIA-63-88 N63-14653	10-17
ISSION ANALYSIS, PLANNING COST-BENEFIT ANALYSIS AS AID			BOLTŽMANN EQUATIONS APPLIED TO SEPARATION O BINARY GAS MIXTURE AT POROUS WALL K-1580 N63-20705	21-11
FOR MISSION		06-01	K-1580 N63-20705 NONEQUILIBRIUM LAMINAR BOUNDARY LAYER FLOW	
SP-201 MANNED PLANETARY SPACE FLIGH		Programme and	BINARY GAS MIXTURE R63SD17 N63-20991	21-11
TAS-PAPER-63-84	N63-12900		KINETIC MODEL FOR BINARY GAS MIXTURES - REP	
AUTOMATING SPACEFLIGHT TRAJE COMPUTER METHODS FOR INCLUDI	CTORY DESIGN -		COLLISION INTEGRAL IN BOLTZMANN EQUATION R63SD76 N63-22080	

32

NT 32

-21

-16

-23

-02 10 -11

-11 -11 s. -08

1-17

1-11

1-11 ING 2-19

NL-1 NUCLEAR POWERPLANT	AFCRL-63-682 372 378016435500 863-19649 19-23
ARMY GAS-COOLED REACTOR SYSTEMS PROGRAM - NL-1 ELECTRICAL POWERPLANT, DYNAMOMETER, MILLETRON COMPUTER	AIRCRAFT BUFFETING CAUSED BY OPEN CAVITIES EXPOSED TO AIR FLOW - VIBRATION AND FLEXURE MODES
IDO-28602 N63-13627 08-10	RAE-TH-AERO-754 21-02
ANALOG COMPUTER STUDY OF ML-1 MUCLEAR POWERPLANT - GAS-COOLED REACTOR AGN-TM-400 N63-14723 11-06	FAILURE MODES OF DIELECTRICS IN SPACE ENVIRONMENT - LABORATORY STUDY TECHNIQUES N63-22695 23-09
MOBILE ATLANTIC RANGE STATION /MARS/ CF ATLANTIC OCEAN CF RANGE	MODE OF VIBRATION BELL-MODE VIBRATIONS OF CONICAL MOZZLES N63-11656 04-33
NOBILITY CF TRANSPORT CF TRANSPORTATION MOBILE AIR TRAFFIC CONTROL SYSTEM	MATURAL MODE FREQUENCIES AND SLOSH FORCES FROM LIQUID SLOSHING IN TOROIDAL TANKS MASA-TN-D-1709 N63-16988 15-23
AFCRL-62-744 N63-10108 01-22 POWER SOURCES FOR MOBILE ENERGY DEPOT	FREQUENCIES 6 ZERO DISPLACEMENT LINES FOR NORMAL MODE VIBRATIONS OF SHALLOW SPHERICAL SHELLS BRL-1188 M63-22610 23-23
ACNP-62015B N63-11685 04-10 DISLOCATION MOBILITY AND INTERACTIONS IN HIGH	NORMAL MODE VIBRATIONS OF SYSTEMS OF ELASTICALLY CONNECTED PARALLEL STRUCTURAL BEAM
PURITY MAGNESIUM AROO-3394-1 N63-12315 05-18	04Lta.w.2041 w 12104-714220 At 45164 45164
TRANSPORTABLE SEARCH RADAR AND SIF EQUIPMENT FOR AIR TRAFFIC CONTROL COMMUNICATIONS FACILITY AFCRL-62-700 N63-14579 10-08	MODE SHAPE HYDROMAGNETIC WAVE TUBE - MODE STRUCTURES AFCRL-62-550 N63-10136 01-15
SURFACE VEHICLE MOBILITY & TRAFFICABILITY RESEARCH N63-20451 20-12	NORMAL MODES OF NONLINEAR COUPLED SHIP MOTIONS AND THEIR STABILITY TER SER. 173, ISSUE 5 N63-10167 01-11
ALKALI METAL ION MOBILITY IN METAL VAPORS N63-20586 20-23	EFFECT OF VARIATIONS OF BENDING MODE SHAPE UPON CLOSED-LOOP FEEDBACK CONTROL STABILITY OF
MODILITY OF NEGATIVE IONS IN HELIUM II LIQUID AS FUNCTION OF DIRECTION & LIQUID ROTATION	ELASTIC, WINGED BOOSTER ASRHCH-TH-62-11 N63-12683 06-30
N63-23178 24-24	SHELL MODE COUPLING - DETERMINATION OF MODE SHAPE, TRANSFER AND POINT IMPEDANCE, AND NATURAL
MODAL RESPONSE SENSITIVITY AND MODAL RESPONSE FOR SINGLE-LOOP AND MULTILOOP CONTROL SYSTEM No.3-13638 08-20	FREQUENCY OF CYLINDERS AND CONES U411-63-005 N63-18271 17-23
MODAL RESPONSE IN COMPLEX PLANE OF PROPAGATION CONSTANT IN RECTANGULAR GUIDE WITH TRANSVERSELY MAGNETIZED LOSSLESS FERRITE N63-15066 11-09 FREQUENCIES OF FLEXURAL VIBRATION AND CORRESPONDING MODAL SHADES FOR CYLINORICALLY AEOLOTROPIC CIRCULAR PLATES N63-23614 24-23 MODE EFFECTS OF COUPLE-STRESSES IN LINEAR ELASTICITY N63-10085 01-33	MODEL S ATRCRAFT HODEL S ATROSPHERE NODEL S DYNAMIC NODEL S GUTENBERG NODEL S LIGHTHILL NODEL S MATHEMATICAL MODEL S RADIO-CONTROLLED NODEL S SCALE NODEL S SPACECRAFT NODEL S THREE-FLUID MODEL S WIND TURMEL NODEL
INFLUENCE OF COUPLE-STRESSES ON STRESS CONCENTRATION N69-10086 01-33	MODERATOR DEUTERIUM OXIDE MODERATED POWER REACTORS DP-795 M63-11617 04-23
SOLID PROPELLANT INVESTIGATION - DEFORMATION AND VOLUME CHANGE, BINDER-OXIDANT INTERFACE AND FAILURE MODES, PROPELLANT MICROSTRUCTURE N63-14617 10-26	TEMPERATURE COEFFICIENTS & SPECTRA IN HYDRIDE MODERATEO SMAP REACTORS NAA-SR-7140 N63-11825 04-06
PROBABILITY THEORY APPLIED TO RELIABLE NETWORK DESIGN - REDUNDANT SYSTEMS AND FAILURE MODES - STATISTICS	THERMAL NEUTRON FLUX IN HEAVY GASEOUS MODERATORS EUR-292-I N63-19263 18-23
IH-1062 N63-14851 11-09	MODULAR PROGRAMMER MODULAR PROGRAMMER FOR USE IN FUSE SYSTEMS
MODAL RESPONSE IN COMPLEX PLANE OF PROPAGATION CONSTANT IN RECTANGULAR GUIDE WITH TRANSVERSELY	DW-433
MAGNETIZED LOSSLESS FERRITE N63-15066 11-09	APPLICATION OF RESIDUE TO DIGITAL COMPUTER PROGRAM - MODULAR PROGRAMMER
FAILURE MECHANISMS IN ELECTRONIC COMPONENTS AND MATERIALS - TEST METHODS DEVELOPMENT, RESULTS FOR SEMICONDUCTORS, TRANSISTORS, DIODES, FERRITES RADC-TOR-63-30 N63-16106 13-25	ASD-TDR-62-686 M63-14867 11-20 MODULATION SA CARRIER MODULATION
FAILURE MECHANISMS - EFFECTS OF TIME AND TEMPERATURE ON RESISTANCE TO FAILURE M63-16871 14-17	SA PERGUENCY MODULATION SA INTERMODULATION
HIGH-ENERGY RADIATION DAMAGE TO SEMICONDUCTORS - AMALYSIS OF FAILURE MECHANISMS RADC-TDR-63-226 N63-19465 19-25	SA PULSE CODE MODULATION /PCM/ SA PULSE FREQUENCY MODULATION /PFM/ OPTICAL SCANNING USING ELECTRICALLY-MODULATED MEMBRANE MIRRORS - APPARATUS AND EXPERIMENTAL RESULTS N63-12808 06-09
PRESSURE PULSE PROPAGATION MODES IN COMPRESSIBLE FLUID SPHERE	CODING THEORY APPLICATIONS TO COMMUNICATIONS

CODING THEORY APPLICATIONS TO COMMUNICATIONS

HO

HOL

MOL

SYSTEMS - CODE CORRELATIONS, PSEUDORANDOM CO RANGING SYSTEM, CODED PHASE-COHERENT COMMUNI JPL-TR-32-67 N63-15061	CATION	SB-62-25 N63		
MODULATION OF SPINNING COIL ELECTROMOTIVE FO		REUSABLE MODULE FOR CARGO SPACECRAFT AIAA PAPER-63-271 N63	3-17808	16-30
USE OF MODULATIONS IN INFRARED RADIATION AS OF INVESTIGATING SOLID PROPELLANT ROCKET ENG		CONTROL SYSTEM FOR RECORDING ELECTRO DEFECTS No.		16-09
	12-26	APOLLO/LEM MISSION - REQUIREMENTS DI RENDEZVOUS, IN-TRANSIT RENDEZVOUS, (RENDEZVOUS		RY
PHOTOCATHODE N-J-63-610R12-1 N63-17062	15-09	AIAA PAPER-63-353 N6	3-20031	
LIFT-DRAG MODULATION TO MINIMIZE AERODYNAMIC HEATING OF REENTRY VEHICLES N63-17973		APPLICATION OF MODULAR AND SECTIONAL GROUND EFFECT MACHINES - MOBILITY OF OVER THE SHORE CARRIER TCREC-TR-62-41 N6:	LOGISTIC	S
TIME VARIATIONS AND SOLAR MODULATIONS OF COS RAYS USING FORBUSH DEGREASES - PLASMA PHYSIC N63-20011	S	INSPECTION OF EMBEDDED MATERIALS AND ELECTRICAL MODULES THROUGHOUT ASSEM	COMPONE	NTS OF
MODULATION OF COSMIC RAY NUCLEI DURING PROPA NYO-10273 N63-20421	GATION 20-28	BIBLIOGRAPHY, 1950-1962 LMSC-3-80-62-28 N6:	3-21360	22-01
CROSS-HODULATION OF COSMIC NOISE - INVESTIGA		HOMOTOPY THEORY IN ABELIAN CATEGORIC	CAL MODULI 3-22859	
THE D-REGION UAG-R137 N63-20748	21-12	MODULUS MODELLES ON A MARKET MODELLES		
OPTIMUM POWER DIVISION BETWEEN CHANNEL MEASU AND INFORMATION TRANSFER FOR PHASE MODULATED	REMENT	S YOUNGS MODULUS		
COHERENT COMMUNICATIONS SYSTEMS N63-23350	24-08	MOIRE METHOD NOIRE METHOD AND BIREFRINGENT COATIN MEASURING POST-ELASTIC SURFACE PROPE	NG METHODS	S OF
POMER AND BANDWIDTH REQUIREMENTS FOR MODULAT SYSTEMS FOR SATELLITE COMMUNICATIONS NASA-CR-51993 N63-23817		METALS ME-6 N6:	3-19435	19-3
MODULATION TECHNIQUE NOISE THRESHOLD OF EXPONENTIAL MODULATION SY		PHOTOELASTICITY & MOIRE METHODS USED DYNAMIC, THREE-DIMENSIONAL STRESS DI AFSWC-TOR-63-48 N6:		
WITH EMPHASIS ON OSCILLATING LIMITER RADC-TDR-63-330 N63-22119 MODULATOR CF ELECTRON TUBE TRANSISTORIZED MINIATURE 15-CHANNEL PULSE-TI TELEMETRY MODULATOR N63-11585	ME E	HOISTURE CF HUMIDITY COMPUTER PROGRAM FOR NONSTEADY SOIL TRANSFER - METEOROLOGY ERDAM-MET-2-63		
MINIATURIZED FIFTEEN-CHANNEL TELEMETRY MODUL		ATMOSPHERIC MECHANICS — PRECIPITATION FLUX, LARGE-SCALE SPECTRA, MEAN WINI SHEAR FLOW, AND QUASI-LAGRANGIAN FLO AFCRL-63-209 No.	STABILI	TY,
INTERFEROMETRIC MODULATOR FOR USE WITH FAR INFRARED GRATING MONOCHROMATOR AFCRL-62-1008 N63-13088	07-15	ANL 350 HELIUM-ATMOSPHERE SYSTEM - I OXYGEN REMOVAL, PURIFICATION, RADIO/	HOISTURE	AND
MICROWAVE PHOTOTUBE AND LIGHT MODULATOR N-J-63-610R12 N63-16344	14-15	PROCESSING ANL-6489 N63	3-13774	08-1
MONOCHROMATOR WAVELENGTH MODULATOR	14-15	MOISTURE CONTENT OF M61 IGNITER COMMITTHROUGH TRICHLOROETHYLEME EXTRACTION AND TITRATION BY KARL FISCHER METHOL PA-TH-1101 N65	N, DISTIL	LATIO
IMPROVING THE PASSBAND CHARACTERISTICS OF PEI INTERFEROMETRIC MODULATOR USING MULTIPLE CORRELATION TECHNIQUES	RIODIC	ENERGY BUDGET AT EARTH SURFACE - SOI STUDY, ELLIS HOLLOW, ITHACA, NEW YOR		RE
NASA-CR-50702 N63-18861	18-09		3-15791	1,3-1
TMO-PLATE ELECTRO-OPTIC CRYSTAL LIGHT MODULA NASA-TY-F-101 N63-20428	20-23	FRACTURE TOUGHNESS AND CRACK GROWTH STEEL		340
SA COMMAND MODULE			3-17746	16-1
APPLICATION OF THE MODULARIZATION CONCEPT TO SATELLITE TAPE RECORDERS NASA-TN-D-1451	01-15	WATER BALANCE IN THE ATMOSPHERE - EV PRECIPITATION CLIMATOLOGY - EFFECTS	VAPORATION OF TOPOGN 3-19384	AND RAPHY 18-2
BIBLIOGRAPHY OF LUNAR PROPERTIES, GEOLOGY, SI VEHICLE & BASES - PART III, LUNAR AND ARCTIC EXPLORATION AND HABITATION		VALUES OF GEOSTROPHIC MERIDIONAL ADMINISTURE OBTAINED BY CONTOUR-CHANNEL NG:		maa
SB-61-67 N63-14739		EFFECT OF AIR HOISTURE ON CONVECTIVE	E CURRENT	IN S
PROBABILISTIC OUTPUT OF FINITE-STATE MACHINE ELEMENTS FOR RANDOM INPUT USING MODULAR CIRC IN DIGITAL COMPUTERS		JPRS-21721 N6	3-23772	24-2
APCRL-62-939 WAN HOTTLE WAS-13671		MOISTURE PROOFING RADIATION-INDUCED POLYMERIZATION - 1		
BIBLIOGRAPHY - PRINTED CIRCUIT AND WELDED MOI SB-63-17 N63-16220		HOISTUREPROOF PLASTIC COATINGS - POI HALOGENATION RAI-303		
HODULAR PACKAGING OF EQUIPMENT - ANNOTATED		A CONTRACTOR OF	ENHAR OF	

19

9

14

9

33

33

RE S

AL LO DN 26

12

18 D Y 21

12

21

07

PLASTIC & METAL HOLDS FOR SOLID PROPELLANT	SA FREE HOLECULAR FLOW YR ROT MARGATO MESTARESTONE - 02
RESEARCH PA-TH-1250 N63-22977 23-19	ION-ATOM AND ION-MOLECULE COLLISIONS - SPECTROSCOPIC STUDY WITH ION BEAMS AFCRL-63-225 N63-14240 10-23
MOLECULAR BEAM MOLECULAR-BEAM ELECTRIC-RESONANCE SPECTROMETER AND RADIO FREQUENCY SPECTRA OF LITHIUM FLUGRIDE UCRL-10482 N65-10872 02-07	DRAG ON A BODY IN HEARLY-FREE MOLECULAR FLOW NYO-10427 N63-17478 15-11
ANALYSIS OF SKIMMER FOR HIGH INTENSITY MOLECULAR BEAM USING THREE-FLUID MODEL	RAREFIED GAS DYNAMICS - MOLECULAR BEAMS AND SURFACE INTERACTIONS, FREE-MOLECULAR FLOW, FLUID MECHANICS, KINETIC THEORY N63-18819 18-11
RM-214 N63-12346 05-11 STATE-OF-THE-ART LITERATURE SURVEY FOR PRODUCTION	CALCULATING FLOW PROPERTIES BY MOLECULAR KINETICS METHOD COMPARED TO MONTE CARLO TECHNIQUE
OF MOLECULAR BEAMS IN ENERGY RANGE OF 1 EV TO	AEDC-TDR-63-120 N63-20109 20-11
SP-620-101-62U	SURFACE RE-EMISSION LAW IN FREE MOLECULE FLOW N63-21575 22-24
INHOMOGENEOUS DEFLECTING MAGNETS FOR USE IN MAGNETIC ANALYSIS OF ATOMIC AND MOLECULAR BEAMS UCRL-10526 N63-12942 07-15	RAREFIED GAS DYNAMICS - TRANSITION FLOW IN GASES OF SIMPLE, MONREACTING, ELECTRICALLY NEUTAAL MOLECULES N63-21600 22-11
IONIZATION OF NITROGEN AND OXYGEN MOLECULES BY BEAMS - ELECTRON IMPACT IONIZATION AND CHARGE	MOLECULAR GAS ENERGY EXCHANGE BETWEEN COLD GAS MOLECULES AND HOT
PHOTODISSOCIATION OF MOLECULES FOR EXCITATION OF	TUNGSTEN SURFACE - PRESSURE DEPENDENCE OF MOLECULE ADSORPTION AND DESCRIPTION
OPTICAL MASER AFOSR-2251 N63-15413 12-25	UCRL-10504 06-23
HIGH INTENSITY MOLECULAR BEAM APPARATUS - SQUID PROJECT	ENERGY EXCHANGE IN RELATION TO JET PROPULSION — LOW-PRESSURE HEAT TRANSFER BETWEEN GASES & SOLID SURFACE — SQUID PROJECT
PR-103-P N63-15520 12-11	SRI-15-P N63-13920 09-23
HIGH INTENSITY MOLECULAR BEAMS USING SUPERSONIC FLOW - SQUID PROJECT	NONEQUILIBRIUM MOLECULAR GAS RADIATION - RADIATIVE TRANSFER EQUATION SOLUTIONS IN TERMS OF ABSORPTION
PR-104-P N63-17512 16-11	COEFFICIENTS & PLANCK-LIKE ENERGY DISTRIBUTIONS TR62-209A N63-14030 09-23
CHEMICAL KINETICS - REACTION OF POTASSIUM WITH METHYL BROMIDE IN CROSSED MOLECULAR BEAMS N63-18563 17-07	CORRELATION OF DISSOCIATION ENERGIES OF GASEOUS MOLECULES AND HEATS OF VAPORIZATION — ATOMIC
RAREFIED GAS DYNAMICS - MOLECULAR BEAMS AND SURFACE INTERACTIONS, FREE-MOLECULAR FLOW, FLUID MECHANICS, KINETIC THEORY N63-18819 18-11	AND NUCLEAR STRUCTURE WADD-TR-60-782, PT. XI N63-19150 18-07 MOLECULAR INTERACTION
PARTICLE INTERACTIONS WITH SOLID SURFACES - MEASUREMENTS USING MOLECULAR BEAM TECHNIQUES GDA-63-0592 N63-19872 19-23	RINETIC THEORY OF NONSPHERICAL MOLECULES — SOLUTIONS FOR BOLTZMANN EQUATIONS AND TRANSPORT COEFFICIENTS FOR INELASTIC POLYATOMIC COLLISIONS WIS-TCI-6, SER. 2 M63-12354 06-11
RAREFIED GAS DYNAMICS - KINETIC THEORY, SOLUTIONS OF BOLTZMANN EQUATION, MOLECULAR BEAMS AND SURFACE INTERACTIONS N63-21557 22-11	MOLECULAR FLUX DISTRIBUTION IN SPACE SIMULATOR — GAS FLOW AND KINETIC STUDY OF MOLECULE-SURFACE INTERACTIONS AND COLLISION RATES AEDC-TOR-03-08
GAS DYNAMICS - MOLECULAR BEAMS AND SURFACE INTERACTIONS N63-21574 22-23	PERTURBATION THEORY APPLIED TO HOLECULAR QUANTUM
REFLECTION OF MODULATED HELIUM AND DEUTERIUM MOLECULAR BEAMS FROM PLATINUM SURFACE N63-21576 22-11	MECHANICS - CALCULATION OF INTERNOLECULAR FORCES & POTENTIAL ENERGY SURFACES IN UPPER ATMOSPHERE NASA-CR-50787 N63-19674 19-07
CHARGE AND MOMENTUM EXCHANGE BETWEEN IONS AND MOLECULES IN DEVELOPING HIGH SPEED MOLECULAR BEAMS N63-21577 22-24	POPULATION INVERSION BETWEEN BOUND AND REPULSIVE MOLECULAR ELECTRONIC STATES BY TWO-TEMPERATURE EQUILIBRIUM - ULTRAVIOLET LASER APPLICATION AVCO-EVERETT RES. REPT164 N63-23343 24-23
MOMENTUM TRANSFER BY MOLECULAR BEAM TECHNIQUES - GAS DYNAMICS N63-21581 22-23	HOLECULAR HITROGEN ELECTRON TRANSITION FOR AIR OXYGEN AND MOLECULAR HITROGEN IN TEMPERATURE RANGE 4000 TO 9000-0E6
SHOCK WAVE EFFECTS ON GENERATION OF HIGH INFENSITY MOLECULAR BEAMS BY NOZZLES N63-21583 22-11	AVGO-EVERETT RES. REPT149 N63-14894 11-23
MOLECULAR BEAMS FROM NOZZLE SOURCES N63-21584 22-11	MOLECULAR PHYSICS NONUMIFORM SCALING OF AN APPROXIMATE HYDROGEN MOLECULAR ION WAVE FUNCTION MIS-TCI-4, SER. 3 N63-10502 01-07
GAS DYNAMICS - CHARACTERISTICS OF AERODYNAMIC MOLECULAR BEAMS N63-21585 22-11	SOLID STATE AND HOLECULAR PHYSICS
CHEMICAL REACTIONS IN CROSSED MOLECULAR BEAMS UCRL-10848 N63-23670 24-07	M63-11653 04-25 MECHANICS OF MOLECULAR PHOTODISSOCIATION UCRL-10438 18-23
MOLECULAR COMPLEX DONOR-ACCEPTOR MOLECULAR COMPLEXES No.3-23754 22-23	MOLECULAR INTEGRAL - AMALYSIS AND DESCRIPTION ARL-63-148 N63-19301 18-23
MOLECULAR ELECTRONICS ANALOG TELEMETRY TRANSMITTER - APPLICATION OF MOLECULAR ELECTRONICS TO PCM TELEMETRY N63-15419 12-08	MOLECULAR PHYSICS - ABSORPTION LINE SPECTRUM OF GASES N63-23276 24-23

CORRELATIO	N DIAGRAM FOR	HYDROGEN	MOLECULE -	
AFCRL-62-1	STRENGTHS 042		N63-10563	01-23
MOLECULAR TOKYO, 196	STRUCTURE AND		COPY - SYMP N63-11580	
	STRUCTURE OF PECTRUM AND RA			00.22
	28 30 30 30 H - 2 9 R	BUNITURE S	N63-13944	
	TURE OF NITRIC E DETERMINATIO 5	IN THE PARTY OF	N63-14492	
	STRUCTURE OF AL AND MODIFIE	AHHONIA I	HOLECULE US	ING
BOND DISSO	CIATION ENERGY ON AFFINITY VA	, IONIZA	TION POTENT	TAL
REACTIVE M	OLECULES AT HI	GH TEMPE	N63-16164	13-07
	STRUCTURE OF P			
	SPECTRA, STRUC			
	AZINE HAVING C		N63-17475	15-07
SYNTHESIS,	MICRONAVE AND	HASS SPE	CTRA, AND	
Control of			N63-17725	16-07
	ABSORPTION SP IN GROUND AND			16-23
	OMPOSITION AND HIGH TEMPERAT			E OF
		3707507	N63-17871	16-07
HOLECULAR S ON ATOMS & PROGRAMS	TRUCTURE AND MOLECULES AND	DIGITAL	THEORETICA COMPUTER N63-21737	
THEORY OF	TOMIC & MOLEC	ULAR STRU		
	OF ATOMS AND	MOLECULES		R
THREE BANDS	TRUCTURE AND S OF GOLDSTEIN- RESOLUTION &	-KAPLAN S ROTATIONA	YSTEM OF NI	TROGEN
	SPECTRUM OF NE			
ISOTOPIC SH NITROGEN -	IFTS IN SOME OF	UCTURE AN	ET SYSTEMS D SPECTRUM N63-21742	0F 22-23
LOW ENERGY STRUCTURE	STATES OF NITE	ROGEN HOL	SHUT PERSON	ECULAR
TRANSITION MOLECULAR S	SPECTRUM OF SI	LICON FL		
HRC-6781	VESTIGATION OF	s to one		22-23
REVEALING N	EW BANDS FOR S	TRONTIUM	HYDRIDE -	22-23
	SPECTRUM OF P	DRIDE &		
SPECTRAL BA	ND ANALYSIS OF HOWING MULTIPL	E PERTUR	UM HYDRIDE BATIONS N63-21747	22-23
BAND SPECTR HOLECULAR S	UN OF INDIUM H	YDRIDE M	column and many	22-23

SUBJECT INDEX		
NEW HETASTABLE ELECTRON STATES OF MOLECULAR STRUCTURE	MOLECULES -	27-21
THERMODYNAMIC AND ELECTRONIC SPEC CHARACTERISTICS OF COMPLEX MOLECU	TRAL	
SPECTROSCOPIC STUDY OF THERMODYNA OF COMPLEXES BETHEEN IODINE AND T	MIC PROPERTI	22-23 ES
ANALOGS - MOLECULAR STRUCTURE	N63-21751	22-23
CHANGES IN ELECTRONIC TRANSITIONS HYDROCARBONS ON CHEMICAL SUBSTITU STRUCTURE IN BENZENE SPECTRUM	OF AROMATIC TIONS - MOLE N63-21753	CULAR 22-23
DONOR-ACCEPTOR HOLECULAR COMPLEXE		22-23
THERMODYNAMIC PROPERTIES OF DONOR		MPLEX
ELECTRON AFFINITIES OF SOME HALOG CHARGE-TRANSFER FREQUENCY - MOLEC	EN MOLECULES	AND
MOLECULAR COMPLEXES OF ANTHRACENE AND THEIR SPECTRA - MOLECULAR STR	AND PENANTH UCTURE N63-21757	
HOLECULAR ORBIT TRANSITIONS IN BE		
THEORETICAL COMPUTATIONS ON ELECT	RON STATES O	
- PROPERTY AND ADDRESS OF THE PERSON OF THE	N63-21759	22-23
SELF-CONSISTENT-FIELD FUNCTION	FIRST ROW AT N63-21761	
GROUND STATES AND EXCITED STATES I	FOR ATOMS AN	D
SELF-CONSISTENT-FIELD WAVE FUNCTION OF LITHIUM	ONS OF ORBIT	
LIMITED CONFIGURATION INTERACTION FIRST ROW DIATOMIC MOLECULES - MO		CTURE
WAVE FUNCTIONS AND CORRESPONDING ENERGIES FOR DIATOMIC MOLECULAR IC		
ADDENUM & ERRATA TO STUDIES IN HOI STRUCTURE		22-23
SELF-CONSISTENT-FIELD WAVE FUNCTION		ORIDE 22-23
GROUND STATE WAVE FUNCTIONS FOR LI		LES - 22-23
STRUCTURE OF GROUND STATE OF HYDRO		22-23
SELF-CONSISTENT-FIELD WAVE FUNCTION NITROGEN AND NITROGEN DIOXIDE MOL	CULES	22-23
VARIATIONAL TREATMENT OF LOWER ELI		TES 22-23
OVERLAP POPULATION OF BUTADIENE AN MOLECULAR STRUCTURE		- 22-23
AN EPISTOLOGUE ON CARBON BONDS & P STRUCTURES OF ORGANIC CHEMICALS		22-23
CORRELATION OF ELECTRON INPACT ION	IZATION	oq.
POTENTIALS OF CONJUGATED MOLECULES		22-23

LOCALIZED MOLECULAR ORBITALS IN SELF-CONSISTENT FIELD WAVE FUNCTIONS OF LINEAR MOLECULES -

MO

HO

SOLID STATE AND MOLECULAR PHYSICS N63-11653 04-25

HOLECULAR SPECTROSCOPY AND CALCULATION NETHODS

23

23

R 3

3

3

3

3

3

E 3

3 E 3

3

3

HYBRIDIZATION	N63-21780 22-23	JPRS-17176	. N63-11843 04-07
	ITALS IN SELF-CONSISTENT LINEAR MOLECULES - ATOMIC NTS M63-21701 22-23	LOW ENERGY ELASTIC AND II ELECTRONS AND MOLECULES I AE63-0006	NELASTIC COLLISION OF
HOLECULAR STRUCTURE & S	PECIFIC HEAT OF CRYSTALS N63-21782 22-23	HYDROGEN BONDING RELATED AMORPHOUS POLYMER NETWORK	KS - MODULUS TEMPERATURE
THEORETICAL INVESTIGATE		RELATIONSHIPS OF METHACK' ONR-TR-RLT-55	YLATES N63-11962 05-07
STRUCTURES AND STATES D	F MOLECULES AND CRYSTALS N63-23267 24-25	ANALYSIS OF SKIMMER FOR	HIGH INTENSITY HOLECULAR
RADIATION EFFECT ON HOL	ECULAR STRUCTURE OF	BEAM USING THREE-FLUID MI	00EL N63-12346 05-11
DESOXYRIBONUCLEIC ACID PROPYLGALLATE		KINETIC THEORY OF HONSPHI	AND AMERICA
PREPARATION, STRUCTURE, PHOSPHIDES	AND PROPERTIES OF	COEFFICIENTS FOR BOLTZMANN OF COEFFICIENTS FOR INCLAST	EQUATIONS AND TRANSPORT IC POLYATOMIC COLLISIONS N63-12354 06-11
FT0-TT-1763/162	N63-23732 24-19	HOLECULAR SPECTROSCOPY OF	F PLANETARY ATMOSPHERES -
MOLECULAR THEORY OF THE	VISCOELASTICITY OF A	VENUS AND HARS	N63-12577 06-29
THREE-DIMENSIONAL HYDRO	GEN-BONDED NETWORK N63-10703 02-07	COLLAPSE PHASE OF EARLY :	SOLAR EVOLUTION N63-12594 06-29
SCATTERING, SYMMETRY, E	AR THEORY, BENZENE, METHANE NERGY BANDS, CRYSTALLINE RATION & ELECTRONIC EFFECTS	CHEMICAL SCAVENGER STUDY MOLECULE CONCENTRATION IN SUPERSONIC FLOW OF NITRO	N NONEQUILIBRIUM
THE SHAPE SECTION AND ADDRESS OF TAXABLE PARTY.	N63-14482 10-25	TP-40	N63-12804 06-07
MONTE CARLO CALCULATION	S OF EQUATION OF STATE OF	SPECTRAL ABSORPTION COEF	FICIENT OF HEATED AIR AND
12- AND 48-MOLECULE HAR LA-2827	N63-18822 18-20	DASA-1348	N63-13058 07-23
LECULAR WEIGHT VISCOMETRIC DETERMINATI	MUNICIPAL AND AND ASSESSED.	SURFACTANT AND HOLECULAR IMPROVED DEOXYGENATION P	SIEVE EVALUATION FOR ACKET FOR CORROSION
OF POLYMERS TIL/T-5363	N63-12722 06-07	PREVENTION RIA-62-3441	N63-13117 07-17
POLYNOMIAL FIT TO DEFIN MOLECULAR WEIGHT IN 196 GCA-TR-63-4-A	ING POINTS FOR MEAN 2 U.S. STANDARD ATMOSPHERE N63-14363 10-20		TAL METHOD APPLICABLE TO
PREPARATION, STABILIZAT OF ENERGY RICH OR EXCIT WEIGHT	ION, AND CHARACTERIZATION ED ATOMS OF LOW MOLECULAR	MASS SPECTROMETRIC STUDY HETERONUCLEAR RARE GAS M	OLECULE 10N
NASA-CR-50296	N63-18289 17-07	STRUMBERS IN CHRONIC HARRY	RGE TRANSFER PROCESSES -
KINETICS OF HYDROCARBON SYSTEMS AND MOLECULAR W	OXYGEN-NITROGEN FLAME EIGHTS OF CHAIN CARRIERS N63-18565 17-07	COLLISIONS WITH NEUTRAL	
TRUE OF INCOMES OF	ARTER STONY GOLD BOUNDARING.		LECULAR DISSOCIATION FROM
VISCOSITY & HEAT CAPACI GASES	CTIVITY, MOLECULAR WEIGHT, TY OF NONPOLAR POLYATOMIC N63-19389 18-23		N63-14172 09-07
OPTICAL INFRARED SPECTR COMPOUNDS BY MATRIX ISO	A OF LOW-MOLECULAR-WEIGHT	POISSON AND FREE HOLECUL CURRENT IN PROBE TO CHAR PLASMA FLOW	E FLUX EQUATIONS RELATE GED PARTICLE DENSITY IN N63-14391 10-24
11TR1-C6013-1	N63-21168 21-19	DISSOCIATIVE NECHANISM P	
LECULE A DIATONIC MOLECULE		OBSERVED IN PULSED OPTIC	AL GASEOUS MASER N63-14422 10-25
A POLYATOMIC MOLECULE ENERGY LEVELS OF THE NI	TATE OF THE MOLECULE BY	SEBUT-CONTACT CONTRIBUTE	ALC HIS THE TOTAL PROPERTY OF THE PARTY OF T
ARSORPTION SPECTRA	N63-10214 01-07	FERMI-CONTACT CONTRIBUTE DEUTERON COUPLING CONSTA DEUTERIUM MOLECULE	NT IN THE HYDROGEN- N63-14519 10-23
MOLECULAR ORBITALS FOR HAMILTONIAN AND CORRELA AFCRL-62-1041	HYDROGEN BASED ON AVERAGE TION ENERGY N63-10874 02-23	ELECTRONIC EFFECTS IN BA REACTIONS - ENERGY LEVEL RELATED TO ISOMERISM OF	SE-CATALYZED ELIMINATION AND MOLECULAR BONDING POLYMERS
ABSORPTION SPECTRUM OF	THE NITRIC OXIDE MOLECULE	AROD-2336-2	M63-14616 10-07
AFCRL-62-1118	N63-11020 03-07	PRESSURE INDUCED SHIFTS VIBRATION-ROTATION ABSOR	PTION BANDS OF HCL
ATMOSPHERE	DIFFUSION IN THE UPPER N63-11243 03-12	AFCRL-63-430 NUMERICAL ANALYSIS FOR F	REE-HOLECULE IMPACT-
HYDROCARBONS	BOND POLARIZABILITIES OF	PRESSURE RELATION FOR CI	RCULAR TUBES OF ZERO ANGLE
ONR-TR-40	N63-11559 04-07	UTIA-88	N63-14866 11-20
MOLECULAR STRUCTURE AND TOKYO, 1962	SPECTROSCOPY - SYMPOSIUM, N63-11580 04-07	ABSOLUTE INTENSITY OF CA BAND - EMISSION AND ABSO UCRL-10620	RPTION HEASUREMENTS
SOL IN STATE AND MOLECUS	AN DUVELLE	ELF-CONSTITENT PERCO	EMULTINGER TERPANSION S

INTENSITY OF MOLECULAR BAND INFRARED RADIATION OF HIGH TEMPERATURE GASES USING REFLECTED SMOCK WAVES - CARBON DIOXIDE

HO

GDA63-0240	N63-17457	15-11	PRESSURE INDUCED SHIFTS OF MO HYDROGEN CHLORIDE	LECULAR BAND LI N63-23281	
MOLECULAR BAND ABSORPTION IN THE OF POTASSIUM AND SODIUM VAPORS I ARC AND PLASMA SYSTEM	IN HIGH TEMP	ERATURE	MOLIERE FORMULA NONPERTURBATIVE SOLUTION OF S	MALL ANGLE SCAT	TERING
ARL-63-37	N63-17462	15-18	PROBLEMS - MOLIERE FORMULA LNF-63/19	N63-15573	12-23
ROTATIONAL EXCITATION OF HOMONUC IMPACT WITH SLOW ELECTRONS — CAL INELASTIC CROSS SECTION			MOLLIER DIAGRAM MOLLIER DIAGRAM FOR AIR INCLU	OFSERT MARK	20.00
R63SD43	N63-17765	16-24	DISSOCIATION IONIZATION AND I	NTERMOLECULAR	
INFRARED EMISSION STUDIES OF VIB RELAXATION IN SIMPLE MOLECULES			AEDC-TDR-63-190	N63-21928	22-11
DISSOCIATION ENERGY OF GROUP IV MOLECULES - SPECTROSCOPY AND THE MADD-TR-60-782, PT. X		I Y DATA	MOLTEM-SALT REACTOR /MSRE/ STUDIES OF MOLTEM-SALT SYSTEM REVERSIBILITY OF VARIOUS COUP DISCHARGE CONDITIONS		GE AND 09-06
ELECTRON COLLISION WITH ATOMIC A			FUELED NUCLEAR REACTORS AND N	UCLEAR SHIP, SA	HANNAH
GA-4313	N63-17961	16-11	ORNL-3417	N63-15441	12-07
ALTERNANT HOLECULAR ORBITAL APPR		133-13	METAL - MOLTEN METAL HALIDE SI ELECTROLYTIC ACTIVITY, PHASE	DIAGRAMS OF	
CORRELATION EFFECTS ARL-63-128	N63-17963	16-23	ONRL-3391	RIMETRY N63-20395	20-07
MOLECULAR ORBITAL CALCULATIONS A STRUCTURE OF IRON-PORPHYRIN COMP ARL-63-130	OUNDS	16-23	MOLYBDATE HEATS AND FREE ENERGIES OF FOI TUNGSTATE, CALCIUM MOLYBDATE,		:IUM
TRANSITION PROBABILITY FROM HOLE			HOLYBDATE	N63-11332	03-23
VIBRATIONAL QUANTUM NUMBERS - VA		IOLET	MOLYBDENUM	000 100-ny 324 1	
CHEMICAL COMPOSITION, HEATS OF C	OMBUSTION E		EFFECT OF RARE-EARTH SCAVENGER TUNGSTEN AND MOLYBDENUM	AS ON PROPERTIE	S OF
MOLECULAR BOND ENERGY OF FUELS - OF OTTO ENGINES			DR I-2068	N63-10289	01-18
COLLISION BETWEEN HELIUM ION AND			MOLYBDENUM SHEET ROLLING PROGR	RAH N63-10693	02-17
GA-3503 DCX-2 APPARATUS - PLASHA GENERAT	N63-18801 ION BY INJEC	W125	PLASMA-ARC SPRAYED RADIATION-OF MOLYBDENUM POWDER	COOLED THRUST C	
AND DISSOCIATION OF 600-KEV HYDR IONS IN MAGNETIC MIRROR FIELD ORNL-3325			EFFECTS OF MINOR ADDITIONS OF MOLYBDENUM	YTTRIUM TO	
NITRIC OXIDE AND MOLECULAR OXYGE		19-12	NONFERROUS METALLURGY - STRUCT HARDENING AND RECRYSTALLIZATION	TURAL CHANGES D	URING
COLLISION LIFETIMES AND THERMODY	PAN SWARE E	100	COMBUSTIBILITY OF TITANIUM AND JPRS-17306	AND ITS ALLOYS	
MASA-CR-50469	N63-20268	20-11	STRUCTURAL CHANGES DURING HARI	DENING AND	
MATHEMATICAL COMPUTATION OF CLAS	SICAL TRAJEC		RECRYSTALLIZATION OF MOLYBDEN	M44 12107	05-18
OF GAS MOLECULES NEAR CRYSTALLING AIAA PAPER 63-463	E SOLID N63-20797	21-23	YIELD POINT RETURN AND MODULUS	S DEFECT RECOVE	
HOLECULAR STRUCTURE AND SPECTRA		AL WORK	ARC-CAST AND POWDER-METALLURGE ASD-TDR-62-859	N63-12309	05-18
ON ATOMS & MOLECULES AND DIGITAL PROGRAMS	N63-21737	22-23	IMPROVED MOLYBDENUM SHEET BY		
MOLECULAR ORBIT TRANSITIONS IN B		200	more train and photogen a	N63-12730	
CONSTRUCTION OF SELF-CONSISTENT-	N63-21758 FIELD MOLECU	0.17	INITIAL VIELDING AND FRACTURE MOLYBDENUM	N63-13247	
DRBITAL WAVE FUNCTION AND LCAO-MI			HOLYBDENUM AND TITANIUM SHEET	ROLLING N63-13274	07-18
WAVE FUNCTIONS AND CORRESPONDING ENERGIES FOR DIATOMIC MOLECULAR	MOLECULAR ION OF HELIC N63-21765	JM 22-23	MEASUREMENT OF THERMAL DIFFUS: HIGH TEMPERATURES - CERAMICS, TITANIUM, ZIRCONIUM OXIDE, ANI	IRON, MOLYBOEN D ALUMINUM OXID	IUM,
COMPUTATION ON GROUND STATE WAVE CARBON/DI-NITRIDE MOLECULE	FUNCTION FO N63-21770	OR DI- 22-23	ASD-TDR-62-24 REFRACTORY METAL PROTECTIVE ST	YSTEMS RESEARCH	06-13
CALCULATIONS ON GROUND STATE OF	CARBON DIOX1 N63-21771	IDE 22-23	MOLYBDENUM, NIOBIUM, TUNGSTEN: BIBLIOGRAPHY TDR-169/3240-31/TR-2	, TANTALUM - N63-14236	19-18
ELECTRONIC WAVE FUNCTION FOR GROWNETHANE	UND STATE OF	0.00	MACHINING OF REFRACTORY MATER MOLYBDENUM, NIOBIUM, PYROCERA	IAL - TUNGSTEN	
DIRECT NUMERICAL CALCULATIONS AND	D ENERGY LEV	ELS OF	ASD-TR-7-532A/VI/	N63-14883	11-18
DI-NITROGEN HOLECULE ONE-CENTER EXPANSION SELF-CONSIST		22-23	NOTCH SENSITIVITY OF TANTALUM, REFRACTORY METALS - IMPACT PRO TOUGHNESS. CRACK PROPAGATION	OPERTIES, FRACT	BDENUM URE 11-18
MOLECULAR ORBITAL ELECTRONIC WAVE	N63-21775	FOR 22-23	HIGH TEMPERATURE OXIDATION-RES	SISTANT COATING	S FOR

)6

TANTALUM ALLOYS, NIOBIUM, TUNGSTEN, AND MOLY ASD-TDR-63-160 N63-16496		ESRO-7-19 (c., wigger to wine N63	-12156 05-17
RELATIONSHIP OF TWINNING TO BRITTLE FRACTURI REFRACTORY METALS, SINGLE AND POLYCRYSTALLIN		DEVELOPMENT OF WORKABLE MOLYBDENUM- BASE ALLOYS ASD-TOR-62-508 N63	D BEVERRAL
MOLYBORNUM AND NIOBIUM ASD-TDR-63-360 N63-16904		PERSHING MOTOR CASE CLOSURE FROM 18	PCT. NICKEL-
HEAT TRANSFER OF SOLID PROPELLAANT ROCKET EN EXHAUST GAS TO MOLYBDENUM NOZZLE THROAT INSE		COBALT-MOLYBDENUM MAR-AGING STEEL - MATERIALS W-G-RD-62-156 N63	AIRFRAME -13654 08-34
NOLTR-62-72 N63-16924 SPECTROCHEMICAL DETERMINATION OF BORON IN		AGING RESPONSE OF NICKEL-COBALT-HOLY	BDENUM STEEL -14225 09-18
MOLYBDENUM ASD-TDR-63-290 N63-17235	A STATE OF THE STA	ARC-CASTING MOLYBDENUM- AND TUNGSTEN	-BASE ALLOY
SURFACE IDNIZATION OF CESIUM ON POROUS TUNGS RHENIUM, MOLYBDENUM, AND TANTALUM - COMPARIS		MACHINING OF REFRACTORY METALS - TUN	-14486 10-18
POROUS MATERIAL AND SOLID SURFACE DATA N63-17658		TANTALUM-TUNGSTEN, MOLYBDENUM-TITANI STEEL	
MOLYBDENUM SHEET ROLLING PROGRAM N63-17747	16-18	MACHINING OF REFRACTORY MATERIALS, H	-ZREST-BAST
HOLYBDENUM FROM HOLYBDENUM COMPOUNDS BY REDU	CTION	TEMPERATURE ALLOYS, HIGH STRENGTH ST TITANIUM AND MOLYBOENUM SHEETS ASD-TR-7-532A/1X/ N63	STEEL SENTENCE STATE
BH-RI-5934 N63-17886	16-07	NOTCH SENSITIVITY OF REFRACTORY META	SA-SUT-SE
THERMODYNAMIC PROPERTIES OF MOLYBDENUM AND NIOBIUM - ANNOTATED BIBLIOGRAPHY	14-14	TUNGSTEN, TANTALUM, MOLYBDENUM, AND TITANIUM ALLOYS ASD-TDR-62-1004 N63	HOLYBDENUM-
SB-62-69 N63-18002 MDLYBDENUM FROM TIN REDUCTION OF MOLYBDENUM	16-18	OXIDATION RESISTANCE OF MOLYBORNUM A	EDEDENIA PURTOCI
DISULFIDE IN INERT GAS ATMOSPHERE N63-18058	16-18	YTTRIUM, SAMARIUM AND ZIRCONIUM - RA	AE EARTH -16175 13-18
TUNGSTEN AND MOLYBDENUM METALLURGY AND		BINARY AND TERNARY PHASE DIAGRAMS OF MOLYBDENUM, TANTALUM AND TUNGSTEN	NIOBIUM,
MASA-TT-F-135 N63-18312		DHIC-183	SH DISTELL
HIGH TEMPERATURE CREEP RUPTURE CHARACTERISTI UNALLOYED HOLYBDENUM FORGINGS PRODUCED FROM CAST AND PRESSED-AND-SINTERED MATERIALS N63-19612		IMPROVED OXIDATION RESISTANCE OF MOL ALLOYING WITH RARE EARTH AND OTHER S N63	
HIGH TEMPERATURE REFRACTORY MATERIAL PROGRAM STRESS RUPTURE AND IRRADIATION DATA FOR TUNG HOLVEDENUM, AND TANTALUM	Series So-	HIGH TEMPERATURE REACTOR MATERIAL - MOLYBDENUM, TANTALUM, TUNGSTEN - RAD GEMP-23A N63	
GEMP-25A N63-20138		STRUCTURAL ANALYSIS OF REFRACTORY AL CHROMIUM, MOLYBDENUM, AND TUNGSTEN	PENNER FROM
MOLYBDENUM SHEET ROLLING - INGOT, EXTRUDED S FORGING TESTS N63-20331	20-18	DHIC-182 N&3 METALLURGY OF MOLYBDENUM AND ITS ALL	0-17587 16-18
HIGH TEMPERATURE EXPOSURE EFFECTS ON MOLYBDE AND STAINLESS STEEL BRAZED JOINTS	NUM	ELLICIA ANTICA A	-18016 16-18
FGT-2868 N63-21707 BIBLIOGRAPHY OF MOLYBDENUM, NIOBIUM, AND	22-33	INTERACTION OF IMPURITY ATOMS AND DI REFRACTORY METALS - MOLYBDENUM SINGL STRAIN AGING AND TENSILE CREEP	
MOLYBDENUM-NIOBIUM ALLOY METALLURGY TID-3572 N63-22220	23-18	ASD-TDR-63-238 K 213 034533172-3 N63	-18079 16-18
DEEP DRAWING OF THICK MOLYBDENUM SHEET N63-22260	23-18	RELATIONSHIP OF TWINNING TO BRITTLE REFRACTORY METALS - POLYCRYSTALLINE RHENIUM ALLOY, NIOBIUM N63	
LOW TEMPERATURE NONAQUEOUS BATHS FOR ELECTRO DEPOSITING MOLYBDENUM, TUNGSTEN & VANADIUM I	MISHOR .	ROLL FORMING OF REFRACTORY METALS - STRENGTH - MOLYBDENUM TITANIUM ALLOY	
ORGANIC SOLVENTS BH-RI-6303 N63-22471	23-18	MECHANICAL AND PHYSICAL PROPERTIES O	新。 英国主义发现了(GE)
MOLYBDENUM AND ITS ALLOYS - CESIUM COMPATABI STRESS RUPTURE, CREEP, AND PROCESSING TECHNI N63-22642	QUES	SHEET AND TZM HOLYBDENUM SHEET	3-20332 20-18
PHASE RECRYSTALLIZATION IN DIFFUSION OF CHRO	HIUH	STRESS CORROSION CRACKING OF URANIUM ALLOYS UNDER TENSION IN ATMOSPHERE Y-1417 N63	TREMOTIALIA
FTD-TT-63-266/162 N63-23738 LYBDENUM ALLDY PROTECTIVE COATINGS FOR REFRACTORY METALS.		HIGH TEMPERATURE AND STRENGTH REFRAC SHEET MATERIAL OF TITANIUM, NIOBIUM,	TORY ALLOY MOLYBDENUM &
MOLYBDENUM ALLOYS N63-10966	02-18	ZIRCONIUM METALS M63	NA SERVINE
EFFECTS OF MINOR ADDITIONS OF YTTRIUM TO MOLYBDENUM N63-11887	04-18	MOLYBDENUM ALLOYS A071 N63	-21079 22-10
MOLYBDENUM- & TUNGSTEN-BASE ALLOY SHEET MATE N63-12096		OXIDATION RESISTANT COATINGS FOR NIC	DBTUM AND 3-22124 22-18
MOLYBDENUM AND NIOBIUM ALLOYS FOR HIGH TEMPERATURE FASTENERS	170000 17	BIBLIOGRAPHY OF MOLYBDENUM, NIOBIUM, MOLYBDENUM-NIOBIUM ALLOY METALLURGY	AND 20 909

SOLAR COSHIC RAY - ENERGY, MOMENTUM, PENETRATION

T1D-3572 N63-22220 23	8-18 BENDING MOMENT DISTRIBUTION OF OPTIMALLY LOADED CAMBERED-SPAN WINGS
IMPROVED OXIDATION RESISTANCE OF MOLYBDENUM - HAFNIUM ALLOYS N63-22557 23	NASA-TN-D-1505 N63-13181 07-0
MOLYBDENUM AND ITS ALLOYS - CESIUM COMPATABILIT STRESS RUPTURE, CREEP, AND PROCESSING TECHNIQUE N63-22642 23	CALCULATION OF ANOMALOUS MAGNETIC MOMENT & LIFE- TY, TIME FOR RADIOACTIVE DECAY PARITIES AS PROPERTIES OF PION BARYON INTERACTION N63-13991 09-2:
ELECTRON TRANSFER OF COMPONENTS IN ALLOY OF MOLYBDENUM WITH FIFTEEN ATOMIC-PERCENT TUNGSTEN JPRS-21406 23	PROPERTIES OF VERTEX FUNCTIONS OF STRONGLY INTER- ACTING PARTICLES - RELATIONS BETWEEN MASS AND COUPLING CONSTANT - ANOMALOUS MAGNETIC MOMENT
OLYBDENUM COMPOUND WEAR AND CORROSION DUE TO ADDITION OF MOLYBDENU DISULFIDE TO GREASES	CUTOFF RIGIDITY OF SOLAR PROTONS
RIA-62-2752 N63-10787 02	
ELECTROCHEMICAL OXIDATION AND DISSOLUTION OF HOLVEDENITE RAE-TRANS-1030 N63-15555 12	NITROGEN IN TEMPERATURE RANGE 4000 TO 9000-DEG AVCO-EVERETT RES. REPT149 N63-14894 11-2:
KINETICS OF OXIDATION OF REFRACTORY METALS AND ALLOYS BETWEEN 1000 AND 2000-DEG C - METAL	MAGNETIC SUSCEPTIBILITY, SPECIFIC MEAT, THERMO- CONDUCTIVITY & MAGNETIC MOMENTS OF RARE EARTH METAL COMPOUNDS N63-19421 19-2:
CARBIDES, COPPER, MOLYBDENUM SILICIDES ASD-TDR-62-203, PT. II N63-15880 13	P-18 MATHEMATICAL ANALYSIS OF MOTION EQUATIONS FOR MOMENTS AND MOMENTS OF MOMENTUM FOR SIX DEGREES OF
MOLYBDENUM FROM MOLYBDENUM COMPOUNDS BY REDUCTI WITH MAGNESIUM	RS-TR-62-4 N63-19850 19-2
BM-RI-5934 N63-17886 16 PHASE RELATIONSHIPS OF MOLYBDENUM, NIOBIUM AND TUNGSTEN BORIDES, CABIDES AND SILICIDES - ANNOTATED BIBLIOGRAPHY	NUCLEAR SPIN AND MAGNETIC MOMENT OF CADMIUM-115 - SPIN LATTICE RELAXATION FOR HELIUM-3 MUCLEI IN SOLID HELIUM-3 - LASER SPECTROMETERS CU-6-63-SC-90789 N63-20033 19-2:
SB-63-9 N63-18872 18 OXIDATION OF MOLYBDENUM DISULFIDE /MOLYBDENITE/	-18 SPACE VEHICLE CONFIGURATION EFFECTS ON STRUCTURAL BENDING FREQUENCIES AND AERODYNAMIC STABILITY
OURING FLOTATION - FACTORS AFFECTING DISSOLUTIO IN DISTILLED WATER RAE-TRANS-1036 N63-19141 18	
PHYSICAL AND PREPARATIVE PROPERTIES OF TRANSITI METAL CHELATES - MOLYBDENUM, TUNGSTEN, AND MICK	BENDING & PITCHING MOMENTS ON NACA-RM-L56G06 N63-20526 20-3
COMPOUNDS ARL-63-160 N63-22397 23	EFFECT OF JET ENTRAINMENT ON LIFT AND MOMENT FOR
THERMOGRAVIMETRIC AND ELECTRON MICROSCOPIC STUD OF OXIDATION OF MOLYBDENUM SILICIDES ASD-TDR-63-753, PT. I N63-23407 24-	DISTRIBUTION USING SAMPLE MOMENTS AND ZERO
MENT	01-05-1-0605C-5AA (\$\$\$29\ACC\)
A HINGE MOMENT A INERTIA MOMENT A INVERSE MOMENT	MOMENT EQUATION SHOCK MAYE STRUCTURE - SHOCK PROFILE STUDY USING GRAD EQUATION N63-14387 10-1:
A PITCHING MOMENT A SIDE MOMENT A STATIC MOMENT	GAS DYNAMICS - COLLISION INTEGRAL IN MOMENT EQUATIONS M63-21567 22-11
BUCKLING OF RING-STIFFENED CYLINDERS UNDER A PUI BENDING MOMENT AND A NONUNIFORM TEMPERATURE DISTRIBUTION	RE MOMENT METHOD METHOD OF EXPRESSING MASS UNBALANCE - FORCE-MOMEN'
NASA-TN-0-1513 N63-10179 01-	-33 METHOD APPLICATION TO SPACECRAFT DESIGN NASA-TN-D-1446 N63-15765 13-33
WAVE RESISTANCE AND MOMENT VALUES FOR SUBMERGED RANKINE SOLID UNDER INTERFACIAL WAVE CONDITIONS N63-11645 04-	MOMENTUM COME TO SELECT AND SELECT AND SELECT SECTION OF SELECT SECTION SECTIO
LOCALIZED MAGNETIC MOMENTS IN METALS MRL-125 N63-11769 04-	PARTICLES IN A BEAM - DETERMINATION OF FRINGING -18 FIELDS
DISTRIBUTIONS OF OSCILLATORY LIFT AND MOMENT ON SUBMERGED HYDROFOILS N63-11966 05-	SLAC-6 N63-11870 04-2: -11 ATMOSPHERIC MOMENTUM AND ENERGY CALCULATIONS FOR
RELATIONSHIPS AMONG COEFFICIENTS OF TURBULENT	SOUTHERN HEMISPHERE DURING IGY AFCRL-62-1128 N63-12759 06-12
MOMENT, HEAT, AND MATTER TRANSFER IN SURFACE LAYER OF ATMOSPHERE JPRS-17299 N63-12135 05-	VELOCITY PROFILES IN KARMAN-POHLMAUSEN MOMENTUM -21 INTEGRAL METHOD WITH SLIP BOUNDARY CONDITION -
ELECTRICAL DIPOLE MOMENT AND FAR FIELDS FROM TRAILING ANTENNA WIRE	WALL EFFECTS SC-4752/RR/ M63-13502 08-1
EE-74 N63-12638 06-	
HYPERFINE STRUCTURES AND NUCLEAR MAGNETIC HOMENT BY ATOMIC-BEAM RADIO FREQUENCY SPECTROSCOPY UCRL-10321 N63-12939 07-	TS PROPERTIES OF RARE EARTH IONS IN CUBIC MATRIX AFCRL-62-929 N63-13700 08-29
CALCULATIONS OF LIFT, MOMENT, AND CAVITY LENGTH FOR OSCILLATING PARTIALLY CAVITATED HYDROFOIL	MUON FLUX AT SEA LEVEL — INTENSITY AND MOMENTUM CORRELATIVE TO METEOROLOGICAL PARAMETER VARIATION: AFCRL-63-401 N63-15890 13-21
TRG-153-SR-2 M63-13137 07-	■■ U. U. 12分割には「1

S

OF

OF GEOMAGNETIC FIELD, GENERATION MECHAMISMS, AND DETECTORS R-63-6, PT. 1 N63-17655 16-28	STATISTICS DESCRIBING THE KINETIC ENERGY AND MOMENTUM TRANSPORT DISTRIBUTIONS OF MIND AS FUNCTIONS OF MAVE NUMBER NA3-19563 19-21
MATHEMATICAL AMALYSIS OF MOTION EQUATIONS FOR MOMENTS AND MOMENTS OF MOMENTUM FOR SIX DEGREES OF FREEDOM OF RIGID BODY	EQUATIONS GOVERNING FORCED RESPONSE OF THE ATMOSPHERE TO FIXED SOURCES AND SINKS OF HEAT AND MOMENTUM N63-19574 19-21
RS-TR-62-4 N63-19850 19-23	RADIATION EFFECT IN ENERGY AND MOMENTUM TRANSPORT
PION BEAM OF 150 HEV/C MOMENTUM 155-63/27 N63-21487 22-23	IN GAS NOS-19788 19-11 TURBULENT HEAT AND MOMENTUM TRANSFER FOR UNIFORM
CHARGE AND MOMENTUM EXCHANGE BETWEEN IONS AND MOLECULES IN DEVELOPING HIGH SPEED MOLECULAR BEAMS No.3-21577 22-24	VELOCITY AND TEMPERATURE GRADIENTS IN A FLOW FIELD N63-20274 20-13
KIMEMATICS OF ELEMENTARY PARTICLES AS FUNCTION OF MOMENTUM - DYNAMIC QUANTITIES FROM ELEMENTARY	MOMENTUM TRANSFER BY MOLECULAR BEAM TECHNIQUES - GAS DYNAMICS H63-21581 22-23
PARTICLE-PROTON INTERACTION UCRL-2426, VOL. III N63-22354 23-23	RAREFIED GAS DYMAMICS - DRAG COEFFICIENT OF CIRCULAR CYLINDER - CHARACTERIZATION OF FLUID MOMENTUM EXCHANGE M63-21603 22-11
MOMENTUM SPECTRUM OF SECONDARY SHOWER PARTICLES FROM HIGH ENERGY ATOMIC COLLISIONS	MOMENTUM AND ENERGY EXCHANGE OF RAREFIED GAS AND
URPA-2 N63-22473 23-23	ROTATING SURFACE - EQUIPMENT AND PROBLEM ANALYSIS AST-3530-101-63U N63-21649 22-11
OMENTUM ENERGY SOLAR COSMIC RAY EVENTS - SUMMARY TABLES OF TIME VARIATIONS AND ENERGY & MOMENTUM SPECTRA R-63-8, FT. II N63-19183 18-28	MONATOMIC GAS THRUST FROM PARTLY IONIZED MONATOMIC GASES N63-10514 01-27
KINEMATICAL QUANTITIES FOR TWO BODY DECAYS IN THE	SUPERSONIC FREE-JET CROSSED-FIELD ACCELERATOR
MOMENTUM RANGE FROM 0.05 TO 25.0 GEV/C CERN-63-20 N63-19189 18-23	USING MONATOMIC GASES AIAA PAPER-63-005 N63-20342 20-27
DMENTUM THEORY MODIFICATION OF MOMENTUM REGION IN THOMAS-FERMI THEORY	PRANDTL-MEYER FLOW OF PURE, MONATOMIC GAS, INCLUDING IONIZATION AND RECOMBINATION EFFECTS NASA-CR-51556 N63-21847 22-11
LA-2750 N63-11572 04-23	HONSTOR THE POTTER HONTED HOW WHENCHES WERE THE MED
SIMPLIFIED MOMENTUM-INTEGRAL METHOD OF LAMINAR BOUNDARY LAYER ON DISK IN ROTATING FLOW JPL-TR-32-366 N63-15031 11-11	TECHNIQUES OF PHYSIOLOGICAL MONITORING AMRL-TDR-62-98/1/ N63-10152 01-16
SUBSONIC, TURBULENT HIXING OF THE COAXIAL JETS	RESULTS OF HUMAN PERFORMANCE IN A MONITORING TASK AMRL-TDR-62-82 N63-10292 01-14
UNDER CONSTANT PRESSURE - DESIGN OF CONSTANT PRESSURE HIXING TUBES - HOMENTUM TRANSPORT THEORY GD/C-62-354A N63-16682 14-11	VISUAL AND AUDITORY MONITORING TESTS AMRL-TDR-62-97 N63-10945 02-14
DENSITY MATRIX FOR ELECTRON GAS WITH WEAK AND STRONG COUPLING - PERTURBATION THEORY FOR MOMENTUM DISTRIBUTION	SEMICONDUCTOR MONITOR FOR NUCLEAR RADIATIONS N63-11222 03-15
ARL-63-87 N63-18024 16-23	MONITORING OF ZIRCALOY-2 PRESSURE TUBES OF THE PRIR REACTOR FOR HIGH TEMPERATURE AND RADIATION
OMENTUM TRANSFER RESONANCE CAPTURE OF ELECTRONS FROM ATOMIC	EFFECTS HN-74731, PT. II N63-11805 04-23
HYDROGEN BY HIGH ENERGY PROTONS - PROBABILITY OF IMPACT CHARGE TRANSFER INCLUDING MOMENTUM EFFECTS N63-11642 04-23	COINCIDENCE COUNT ALPHA PARTICLE AIR MONITOR N63-1376 05-15
CORRELATION OF MUON SPINS IN MUON PAIR PRODUCTION BY UNPOLARIZED PHOTONS	AUTOMATIC MASS SPECTROMETER FOR MONITORING URANIUM ISOTOPE CONCENTRATIONS K-1445 N63-12172 05-15
LMF-62-75 N63-12573 O6-23 ENERGY AND MOMENTUM EXCHANGE BETWEEN NON-	K-1445 N63-12172 05-15 TEMPERATURE TRANSDUCER FOR IN-FLIGHT MONITORING
EQUIPARTITION GASES ARAP-5-P N63-13916 09-23	OF SKIN PANEL SURFACE TEMPERATURES - EFFECTS OF INSULATION AND VIBRATION ON ACCURACY
ROTATIONAL EXCITATION AND MOMENTUM TRANSFER CROSS	ATL-D-811 N69-12288 05-15
SECTIONS FOR ELECTRONS IN HYDROGEN AND NITROGEN FROM TRANSPORT COEFFICIENTS N63-14233 10-23	SELECTIVE MONITORING TECHNIQUES AND MODEL AMRL-TDR-62-144 N63-12297 05-08
HIGH TEMPERATURE LIQUID METAL HEAT TRANSFER FOR ATOMIC ENERGY COMMISSION — MOMENTUM TRANSFER, TMO-PHASE FLOW, FREE AND FORCED CONVECTIONS N63-15022 11-13	ACID-BASE VARIATION IN BLOOD AND URINE FOR DETECTION OF IN-FLIGHT HYPERVENTILATION SAM-TDR-62-117 N63-13538 08-16
LOW NUCLEON MOMENTUM TRANSFER COLLISIONS - PION-	IN-CORE POWER MONITORING OF NUCLEAR REACTORS GEAP-3914 N63-14206 09-15
PION INTERACTIONS UCRL-10703 N63-15889 13-23	CONCEPT AND DESIGN OF RADIOLOGICAL MONITORING
TRANSFER OF MOMENTUM, HEAT, AND MASS IN TURBULENT PIPE FLOW PAST A HYDRODYNAMICALLY SMOOTH MALL EUR-293.E N63-19206 18-11	AIR PURIFICATION AND CONTROL IN NUCLEAR SUBMARINES - GAS CHROMATOGRAPHY AS SUBMARINE
ATOMIC MOMENTUM TRANSFER COLLISION FREQUENCY IN DECAYING PLASMA IN MELIUM-KRYPTON AND MELIUM-XENON	ATMOSPHERE MONITOR M63-14933 11-16 PORTABLE INTEGRATING SPHERE FOR MONITORING SOLAR
MIXTURES R-171 N63-19348 18-24	REFLECTANCE OF SPACECRAFT COATING MASA-TH-D-1714 M69-19093 11-15

	DIGITAL READOUT TECHNIC APPLICAB AEROSPACE MEDICAL MONITORING OF		ATORY &	AND SECTION OF THE PROPERTY AND THE PROP	NET ROTTED	23-23
	RESPONSE DATA SAM-TDR-62-139	N63-15903	13-16	AUTOMATIC LAUNDRY MONITORING SYSTEM OF ALPHA AND BETA CONTAMINATION IN LACLOTHING		
	ALERT. A ONE MEGACYCLE COMPUTER OF RECEPTION AND REAL TIME PROCESSION ON THE PROCESSION OF T	NG OF TELEM	ETRY	HN-76351, REV. N63- MONKEY CF CHIMPANZEE	-22655	23-16
	CRITERIA FOR DESIGN AND OPERATION FOR PRECISION INSTRUMENTS - ENVI	N OF CLEAN		EFFECT OF FORWARD ACCELERATIONS, STAI EVISCERATION AND SUPPORT SYSTEMS UPO INTRAPULMONARY PRESSURES IN ANIMALS	N	21
	AIR MONITORING, PERSONNEL PRACTIC	N63-16208	13-10	A COMPARATIVE STUDY OF HUMAN AND RHE		01-14 Y
	OFF-SITE ENVIRONMENTAL SAMPLING O DATA OF RADIDACTIVE CLOUDS - SEDI PNE-200F		13-21	LEUKOCYTES IN CULTURES SAM-TDR-62-99 N63		02-16
	DISCREPANCIES WITH DELTA-P SENSOI LIQUID PROPELLANT SLOSHING DURING MTP-P&VE-P-62-6			PROTECTION AGAINST IONIZING RADIATION X-IRRADIATED MONKEYS RECEIVING PREIRI PROPHYLAXIS AND POSTIRRADIATION THER. SAM-TDR-62-103 N63-	RADIATION	06-16
	RELIABILITY MONITORING BY OPTIONS	AL STOPPING N63-17299	15-20	HYPOTHALAMIC TEMPERATURES IN DOGS AND THERMOREGULATORY RESPONSES TO ENVIRON FACTORS		AND
	SOLID STATE TACAN MONITOR - DELIVER BOARD - PHYSICAL & ELECTRICAL ASS		AD-		-15646	12-16
	ESD-TDR-63-321 MODULAR SYSTEM INDICATORS FOR MODULAR	N63-18276	17-08	EFFECT OF DIMETHYLHYDRAZINE ON COMPLI BEHAVIOR IN JAVA MONKEY - TOXICITY AMRL-TDR-63-39 M63-	EX AVOIDA -19321	18-16
	NAVIGATIONAL AIDS OF FLIGHT CENTER		19-08	EFFECTS OF DECABORANE ON BRAIN ACTIV		
	GAMMA RADIATION INTENSITY ENERGY RECORDER FOR FISSION MONITORING USNRDL-TR-654	LEVEL-TIME N63-20398	20-15	POSTURE AND GRASPING STRENGTH OF MONI		
	ON-LINE SUB-PROGRAM FOR DETERMINA EIGENVALUES AND EIGENVECTORS WITH			ARL-TOR-63-21 N63- MONKEY, APE AND HUMAN MORPHOLOGY AND		19-16
	CONVERGENCE MONITORING AFCRL-63-365	N63-21671	22-06	RELATING TO STRENGTH AND ENDURANCE	-19760	19-16
	ROBAN COMPUTER MONITOR SYSTEM FOR	R CRYSTALLO	GRAPHIC	EFFECT OF RADIATION ON CARBOHYDRATE	HETABOL IS	M IN
	AROD-3083-6	N63-21851	22-06		-20656	20-16
	TELEMETERS FOR POWER MONITORING			EFFECT OF PROLONGED LIMITATION OF MO ON BEHAVIOR OF MONKEYS - SPACE BIOLO	GY	
	GEAP-4229	N63-21921	22-09		-21537	22-16
	LIQUID EFFLUENT MONITOR FOR GAMM/ RADIONUCLIDES - SCINTILLATION DE HN-78193			CARBOHYDRATE METABOLISM IN HONKEYS W RADIATION SICKNESS AFTER X-RAY IRRAD FTD-TT-63-641/16264 N63		24-16
	TESTS OF EPITAXIAL GROWTH REACTOR CONTROLLING COMPOSITION OF VAPOR AFCRL-63-349		23-09	RESPONSES OF RHESUS MONKEYS TO PROBA SEQUENTIAL DEPENDENCIES N63	BILISTIC -23748	24-16
	RADAR QUALITY CONTROL - CONTINUOR AIRCRAFT			MONOCHROMATIC RADIATION INFRARED MONOCHROMATIC RADIATION /IM USED TO DETERMINE TEMPERATURES IN GA		
	MEDICAL MONITORING IN SPACE FLIGHTECHNIQUES, AND EQUIPMENT	HT - METHOD	s,	DETONATIONS - PYROMETER TECHNIQUE	-15058	11-15
	AID-P-63-42	N63-23506	24-16	TEMPERATURE MEASUREMENT IN GASEOUS D MONOCHROMATIC RADIATION PYROMETRY	ETONATION	S BY
10	MITORING SYSTEM SELECTIVE MONITORING TECHNIQUES A AMRL-TDR-62-144		05-08	ARL-63-85 N63	-22237	23-11
	TEMPERATURE-DEPENDENCE OF REMOTE RADIATION MONITORING SYSTEM	AREA GAMMA		SIMULATION OF LUNAR LUMINESCENCE - U PROTON EXCITATION OF TEXTITE & METEO		
	USNDRL-TR-604	N63-12475		ARGONNE DUAL NEUTRON DIFFRACTOMETERS	USING SI	INGLE
	INTERCALIBRATION OF MONITORING ST PRODUCTS IN ATMOSPHERE NRL-5850	YSTEMS FOR N63-14785	02-10	PRIMARY BEAM ANL-6537 N63	-12209	05-15
	DESIGN AND DEVELOPMENT OF REAL-T	INE PSYCO-		INTERFEROMETRIC MODULATOR FOR USE WI		07-1
	SYSTEM - CAPABILITY OF OPERATOR			PROPORTIONAL COUNTER SPECTROMETER FO		X-RAY
	APPARATUS FOR PROTON IRRADIATION OF LIVING BIOLOGICAL CELLS AND HE	ONITORING S	YSTEM	MEASUREMENT - DESIGNED TO BE MOUNTED ROCKET TELEMETERING MONOCHROMATOR AFCRL-62-1105 N63	ON AERO! -13501	09-1
	SAM-TDR-63-26 GAMMA IRRADIATION EFFECTS ON IN-	N63-21185	21-16	MONOCHROMATOR WAVELENGTH MODULATOR MATT-162 N63	-16468	14-15
	EQUIPHENT			THE RESIDENCE AND A SHARE WAS A STREET, MADERNA OF THE PARTY OF THE PA	- TEMETON	LC DOM

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MONTE CARLO METHOD

HIGH TEMPERATURE MATERIALS AND REACTOR COMPONENT DEVELOPMENT PROGRAMS - VOL III, REACTOR CONTROLS, INSTRUMENTATION, FASTENERS, MONTE CARLO METHOD GEMP-177C N63-13428 08-1

MONTE CARLO FORTRAN PROGRAMS FOR CALCULATING
NEUTRON ABSORPTION IN SPHERES DISTRIBUTED RANDOMLY
MAPD-TM-352
N63-14052
09-20

SPACE, ENERGY AND TIME DISTRIBUTION OF NEUTRONS AT GROUND-AIR INTERFACE CALCULATED BY MONTE CARLO

10 231 N63-14568 10-23

VACUUM ULTRAVIOLET MONOCHRO	DMATOR N63-17230 15-15	LA-2390, SUPPL.
HONOETHANOLAH INE		NONTE CARLO METHOD FOR C
AIR PURIFICATION AND CONTRO	DL IN NUCLEAR	SI-EDICHOUNTDAGE TO
SUBMARINES - STABILIZING EN	FFECT OF VERSENE FE-3	MONTE CARLO METHOD FOR M SPACECRAFT SHIELDING
AND RANGE AND A STREET, WARR CHAPTER,	N63-14932 11-16	SPACECRAFT SHIELDING DES
ONOID	MICHEDENSTRONETES AE	IONIZATION CALCULATIONS
NORMAL AND FACTOR MONOIDS	OF COMMUTATIVE MACHINES	COST MEANURE OF PRODUCTION AND AND AND AND AND AND AND AND AND AN
AROD-4049-11	N63-19146 18-08	MONTE CARLO SOLUTION OF EQUATION UNC-5014, VOL. A
ONOMER INTERNAL POLYMERIZATION OF	THE MENUMERS TH THREE	UNC-3014, VUL. A
TYPES OF PAPER	THE TOWN AND THE TOWN THE THE	USES OF MONTE CARLO METH
RIA-62-3289	N63-11447 03-19	AND REVIEW TECHNIQUE - I
SYNTHESIS OF ELASTOHERS CO	NTAINING SILICON-	CHARGO STATES
NITROGEN BONDS - SCREENING	OF MONOMERS FOR	CALCULATIONS ON HIGH EN
POLYMERIZATION	N63-12052 05-07	AND CASCADE REACTIONS BY
POLYMERIZATION OF SILANE ME	DNOMER TO SILICONE	WENTER DESIGNATION AND STREET OF THE PARTY O
ELASTOMERS	N63-15280 12-07	GENERAL GEOMETRY MONTE
HECHANISH OF RADIATION-IND	ICED CELATION TO	PENETRATION PROBLEM
MONOMER-POLYMER MIXTURES OF		LAMS-2856
	N63-17546 16-07	MONTE CARLO CALCULATIONS
7-61 altal-tam		12- AND 48-HOLECULE HARI
RUBBER RESEARCH - SYNTHESI		LA-2827
HONOMERS FOR ADVANCED ELAS	N63-18181 16-07	CALCULATING FLOW PROPER
	100 Act 0 - 4 1 2 1 A 2 - 2 c	METHOD COMPARED TO MONTH
RADIATION PROGRAM SUMMARIE	S - DOSIMETRY, HALOGEN	AEDC-TDR-63-120
COMPOUND, POLYMERS, MONOME	RS, GAMMA RADIATION, AND	THE RESIDENCE OF THE PROPERTY
NEUTRON TRANSMUTATION BNL-790/C-37/	N63-18295 17-07	GAS DYNAMICS - SHOCK WA
MAYARIN - CAT - TOAYAR		+ DOSERSOINDS ELARSAD &
		MONTE CARLO CALCULATION
F SEAPLANE		IN LIQUID HYDROGEN OF N
DNOPOLE ANTENNA SYSTEM	COLEMBO NO DIMENTES	1 A-2009 MANAGEMELIAS (78
LOG-PERIODIC DIPOLE AND MO	NOPOLE ANTENNA SYSTEMS	10-88 《ARMS 1 SHEAN SHEERIN
1-53: - MOM 1-64H	N63-16915 14-08	MONTE CARLO COMPUTER TE
IMPEDANCE AND RADIATION FI	ELD OF HOUSEON F	OF CRYOPUMP CONFIGURATI REGION
ANTENNA IN DIELECTRIC CAVI	TY HUNGPOLE	NASA-TH-X-50944
NASA-CR-51097	N63-21046 21-09	AND TANDOUGH BE WAREAT
143-110 [14		MONTICELLITE
ONOSACCHARIDE CF CARBOHYDRATE	The state of the s	BOWEN DECARBONATION SER EQUILIBRIA OF REACTION
F GLUCOSE	MASA-CA-70148	" WIELDS MONTICELLITE DE
MEDICAL STATE OF THE STATE OF T		NASA-TH-D-1843
MOXIDE 32 MARL HOLLANDS	A OF CHE COLUMN HOUSE PARTY.	
PHOTOCHEMICAL DECOMPOSITIO	N63-11169 03-07	CF CLAY
CONTROL MARKETAN CO. P. S.	CHARLE WATER WEDSTERNING	DESTRUCTION OF SERVICE OF SUCCESSION
INFRARED ABSORPTION BY NIT		HOON YEURIST TERROR YE
MONOXIDE AND NETHANE	N63-11588 04-07	SA LUNAR HEADINGS
LOW TEMPERATURE CELL FOR E	XPERIMENTS ON INFRARED	CF EARTH MOON SYSTEM CF EARTH MOON TRAJECTORY
SPECTRA OF LIQUID AND SOLI	D CARBON HONOXIDE	CF HANSEN LUNAR THEORY CF HILL LUNAR THEORY
JPL-TR-32-357	N63-13136 07-07	CF HILL LUNAR THEORY
ATD QUOTETCATION AND CONTR	OL OF MICLEAR	THE EFFECT ON THE LUNAR ACCRETION
AIR PURIFICATION AND CONTR SUBMARINES - HEAT EXCHANGE	R FOR USE IN CONJUNCTION	JPL-TR-32-293
WITH CARBON MONOXIDE/HYDRO	GEN BURNER	
	N63-14938 11-16	LUNAR THERMAL EMISSION
ABSORPTION LINE STRENGTH I		ASTRONOMY AFCRL-62-882
BAND		AFCKL-62-002
AFCRL-63-283	N63-16132 13-23	VENUSIAN AND LUNAR RADA
60	AT OL ZEGI *SHITESMINETH	EXPERIMENTS
KINETICS AND SPECTRAL ENIT FLAME BANDS	TANCE OF CARBON MONOXIDE	JPL-TR-32-245
TENNE DANUS	HO3-10311 11-20	

ASCADES OF HIGH ENERGY N63-15140 1 UCLEON TRANSPORT THROUGH H63-15143 11-IGN BY MONTE CARLO AND N63-15147 11-32 RADIATION TRANSPORT N63-19543 12-23 OD IN PROGRAM EVALUATION N63-15702 12-20 PRGY NUCLEAR INTERACTIONS
Y MONTE CARLO METHOD
N63-16125 13-23 13-23 ARLO CODE FOR NEUTRON N63-17261 15-20 OF EQUATION OF STATE OF CIRCLES N63-18822 18-20 TIES BY MOLECULAR KINETICS E CARLO TECHNIQUE N63-20109 20-11 VE THICKNESS BY MONTE CARLO N63-21572 22-24 OF NEUTRON THERMALIZATION UCLEAR ROCKET PROPELLANT SUSATAB N63-21656 22-26 CHNIQUE APPLIED TO FOCUSING DNS IN FREE MOLECULAR FLOW N63-22511 23-11 STRANG - XOOLOGG - ANALYST IES - P-T UNIVARIANT FORSTERITE PLUS CALCITE RICLASE & CARBON DIOXIDE N63-18464 17-07 SURPRIES DE THE HOOD ORBIT OF METEORITIC N63-10143 01-29 HEASUREMENTS - RADIO N63-10296 01-05 R DEPOLARIZATION JPL-TR-32-245 N63-10428 01-05 DEVELOPMENT OF LUNAR AND SOLAR DISTURBING FUNCTIONS FOR A CLOSE SATELLITE NASA-TN-D-1126 N63-10494 01-N63-10494 01-27 ORIGIN OF THE LUNAR WALLED PLAIN, PTOLEMAEUS N63-10997 02-05 OPTICS DEVELOPMENT FOR 43-INCH LUNAR TELESCOPE, PYROMETER DEVELOPMENT FOR LUNAR TEMPERATURE MEASUREMENT AFCRL-62-1100 FCRL-62-1100 N63-11016 03-29 SPACE SCIENCE - SOLAR PROBES, LAUNCH, AND UNMANNED SPACECRAFT N63-11139 03-29

10-29

PHOTOGRAPHY OF THE MOON FROM SPACE PROBES JPL-TR-32-347 N63-14677

PHYSICAL PROPERTIES OF THE MOON AR-26-JPL	AND PLANETS N63-11407	03-29
BIOLOGICAL PROBLEMS OF LUNAR BA	SE - PLANTS N63-11476	03-16
SOVIET PAPERS ON ELECTRON DENSI		HERE
AND RADIO EMISSIONS FROM THE MO JPRS-15740		
EFFECT OF INTERNAL FLOW OF HEAT RADIO EMISSION	OF MOON ON N63-11533	
PRECISION MEASUREMENT OF RADIO MOON ON 9.6-CM WAVELENGTH	EMISSION FRO N63-11534	H THE 03-05
RADIO ENISSION OF MOON ON 3.2 M	AVELENGTH N63-11551	04-05
MAGNETIC FIELD OF THE MOON AND RM-3140-NASA	PLANETS N63-12040	05-29
COMPUTATION OF SELENOGRAPHIC CO	ORDINATES OF	LUNAR
PHOTOGRAPHS USING CONIC PROJECT		
IMPACTS ON THE EARTH AND MOON - AND ASTEROIDS	METEORITES, N63-12071	
FLICKERING OF STAR IMAGES IN TEL BARYCENTRIC HIGH RELIEF OF LIMB SOLAR DIFFRACTION SPECTOGRAPH		н -
JPRS-17363	N63-12201	05-05
BARYCENTRIC HIGH RELIEF OF LIMB	NK 2 - 12202	05-05
	- cinuns.	FOG.
SATELLITE TRACKING WITH A CAMERA MOON, AND FILM PROCESSING AS IN ESD-TDR-62-336	FLUENCING FA	O5-10
LUNAR MAPPING - CATALOG OF SELECTION COORDINATES OF LUNAR CRATERS	NOGRAPHIC N63-12353	06-05
FEASIBILITY OF SIMULATING RADAR MOON		
AFCRL-62-1120	N63-12362	06-05
LUNAR GEOLOGY - ANALYSIS OF LUNA	N63-12785	
MASA-SPONSORED SPACE RESEARCH - RELATIONSHIPS, MOON AND PLANETS, SATELLITE AND SPACE PROBE DATA A	GEODESY, EAR AND ASTRONO	RTH-SUN DMY -
	N63-12841	06-29
ACTION OF HYPERSONIC JET ON DUST	LAYER - REI	LATED
TO LUNAR SURFACE EROSION BY ROCK IAS-PAPER-63-50	N63-12894	07-29
MEASURING ROCK AND SOIL STRENGTH		
SURFACE OF THE MOON JPL-TR-32-374	N63-12922	07-29
LUNAR ORIGIN OF TEXTITES - AEROD NASA-TN-D-1556	N63-12929	
ORBIT CHANGES OF CISLUNAR SATELL	.ITE N63-13111	07-29
LUNAR AND PLANETARY LABORATORY - INFRARED SPECTRA OF VENUS, AND S SPECTROMETER		09-05
THERAPED SPECTROPHOTOMETRY END I	LIMAD AND DI	METARY
INFRARED SPECTROPHUTOMETRY FOR L SOIL ANALYSIS NASA-TN-D-1871	N63-14406	10-29
POLARIMETER DESIGN FOR LUNAR STU AFCRL-63-405	DIES	
EPONDS IN THTER PRETTING LUNAR SUR	EACE TEMPERA	
DATA OBTAINED BY INSTRUMENTS ABO ATHOSPHERE	VE FARTH	10-05
FRAGMENTS EJECTED FROM LUNAR SUR IMPACT ANALYZED ON BASIS OF STUD HYPERVELOCITY IMPACT IN ROCK AND NASA-TH-D-17AT	FACE BY METE	OROID
NASA-TN-D-1767	N63-14587	10-29

BIBLIOGRAPHY OF LUNAR PROPERTIES VEHICLE & BASES - PART III, LUNA EXPLORATION AND HABITATION	, GEOLOGY, S R AND ARCTIC	URFACE
SB-61-67 Aggress (A. Service Con	N63-14739	11-29
LUNAR TOPOGRAPHY - LUNAR SHADON, MICRODENSITOMETER MEASUREMENT	LUNAR CRATE	R,
HICKODENSTIONETER HEASOKENENT	N63-14855	11-05
ELECTROLYSIS AND LIQUEFACTION OF	WATER OF HO N63-14987	DN 11-29
LUNAR BASE CONSTRUCTION	N63-14988	11-29
LUNAR SOIL AS SOURCE OF OXYGEN	N63-14989	11-29
MAP OF LUNAR LIMB AREAS - PART I	II N63-15080	11-05
PHOTOGRAPHIC MEASUREMENT OF CRAT	ERS IN LUNAR	
WALLED PLAIN PTOLEMAEUS	N63-16190	13-29
PLANETARY PHOTOGRAPHY - MULTICOL THE MOON, MARS, VENUS, AND OTHER	OR PHOTOMETR	Y OF
THE HOURY HARSY VEROSY AND OTHER	N63-16246	13-05
INFRARED ASTRONOMY OF MOON - LUN	AR RAY CRATE	RS AND
SURFACE TEMPERATURE AFCRL-63-459	N63-16513	14-29
SPACECRAFT GUIDANCE - VEHICLE MO EARTH GRAVITATIONAL FIELDS	TION IN MOON M63-16808	
ASTRONOMICAL ALMANAC, MAY-AUG 19		100
MOON, VENUS, SATURN, AND JUPITER	N63-17010	
EVIDENCE OF GRANITIC ROCKS IN LU MORPHOLOGY OF THE LUNAR SURFACE	- TEKTITES	
	N63-17108	15-05
COMPARISON OF SATELLITE MEASUREM GEODETIC SURVEYING METHODS FOR D	ENTS, LUNAR,	AND
GEODETIC PARAMETERS	N63-17110	15-12
LUNAR TEMPERATURE DETERMINATION	DURING LUNAR	
NASA-CR-50148	N63-17133	15-29
SOLUTION OF INTEGRAL EQUATION FO FUNCTION - MEASURING LUNAR SCATT WITH CONTINUOUS WAVE RADAR	R LUNAR SCAT ERING PROPER N63-18051	TIES
HEASUREMENT OF STEEP LUNAR CRATE		
NASA-CR-50096	N63-18291	
COMPARISON OF RADAR BACK SCATTER FROM MOON-LIKE SURFACES TO LUNAR SURFACE ROUGHNESS - DIELECTRIC CO NASA-CR-50304	SCATTERING I	ATA
MEASUREMENT OF MAGNETIC FIELD NE	PURICECULO	224
LUNAR PHOTOGRAPHY - LUNAR FAR SI	DE PHOTOGRAPI	
THE RESERVE OF THE PERSON OF T	THE WAY TO SEE THE	A
BIBLIOGRAPHY OF SOVIET BLOC LITE DIMENSIONS, 1957 TO 1963 AID-B-63-100	N63-19354	
TIDAL ENERGY LOSS IN INTERIOR OF		
CARROLING MICHAEL INC. A SCIENTIAL I		
TELESCOPE WITH CASSEGRAIN OPTICS SPECTRUM AND POLARIMETRY STUDIES MOON, ASTEROIDS, AND PLANETS AFCRL-63-864	OF SATELLITE	21-05
	N63-20776	

NAVIGATION OF LUNAR VEHICLES - OPTICAL TRACKING, LUNAR PHOTOMETRY LYMAN ALPHA AND THE LUNAR LIMB, AND TERRESTRIAL OCCULTATIONS OF STARS GCA-TR-62-24-A M63-21173 21-22

PHYSICAL CHARACTERISTICS OF THE MOON

)5 iD ١,

G

			THE RESERVE TO A SECOND CONTRACT OF THE PROPERTY OF THE PROPER	
12 ECTS (-E-0)		22-29	SOLID SURFACE MORPHOLOGIES GOVERNED BY CA AND THERMODYNAMICS OF SURFACES - CRYSTAL	PILLARITY
PERTURBATIONS IN THE ORBIT OF TH	N63-21616	22-29	ANISOTROPY AROD-2761-3 N63-1436	1 10-23
DETERMINATION OF MASS. SHAPE. HO AND GRAVITATIONAL FIELD OF THE		22-29	EVIDENCE OF GRANITIC ROCKS IN LUNAR CRUST MORPHOLOGY OF THE LUNAR SURFACE - TEKTITE N63-1710	5
AGE OF THE MOON, CHEMICAL COMPOS ASPECTS, STRESS AND COOLING HIST		DETCAL	MORPHOLOGY OF BAINITE IN HYPOEUTECTOID ST N63-2043	
engan in the property of the contract of the c	N63-21618	22-29	MORPHOLOGICAL CHANGES IN PERIPHERAL NERVE	TRUNKS .
ATMOSPHERE NEAR THE MOON	N63-21619	22-29	FROM EFFECT OF VIBRATION JPRS-21053 N63-2209	9 22-16
TOPOLOGY OF THE MOON SURFACE	N63-21620	22-29	MORPHOLOGICAL BASIS FOR SONIC AND ULTRASO	IDI TATIBO
MEASUREMENTS OF LUNAR TEMPERATURE DURING ECLIPSE AND NORMAL LUNATE MAPS OF SELECTED CRATERS			DETECTION CHARACTERISTICS OF DOLPHINS JPRS-21038 BLOOD VALVES OF POCKET MICE - PEROGNATHUS	4 23-16
NATURE OF LUNAR SURFACE AND MAJO FEATURES	N63-21622	22-29	MORPHOLOGIC COMPARISON - EFFECTS OF IONIZ RADIATION N63-2353	ING
THEORETICAL TIDES ON RIGID HOON PHYSICAL PROPERTIES OF MOON FROM OBSERVATIONS		GROSS 22-29	KARYOTYPE ANALYSIS OF PEROGNATHUS - NUMER MORPHOLOGICAL DIVERGENCE - GENETICS N63-2353	10000
MILLIMETER WAVELENGTH OBSERVATION	ONS OF VENUS	6 THE 23-09	GEOPHYSICS - MORPHOLOGY AND VARIATIONS IN INTENSITY OF VAN ALLEN BELT, GEOMAGNETISM EQUATORIAL RING CURRENT N63-2354	OF
BIBLIOGRAPHY - LUNAR BASE	N63-22777	23-29	MORPHOTROPISM	OR FAR DAY
PHOTOELECTRIC SPECTROPHOTOMETER LUMINESCENCE SIMULATION AFCRL-63-731	FOR AUNAR N63-22986	23-23	CF CRYSTAL STRUCTURE ISOMORPHIC AND MORPHOTROPIC RELATIONSHIPS DXIDES OF TITANIUM DIOXIDE TYPE INCLUDING	IN
HELIOHETER OBSERVATIONS OF HOOMS	S ROTATION AI	ND 24-05		10 11-07
LUNAR TEMPERATURES, SURFACE RADI	DACTIVITY,	AND	MORSE POTENTIAL VIBRATIONAL WAVE FUNCTIONS AND OVERLAP IN	
SOIL MECHANICS SM-43544	N63-23341	24-29	OF VARIOUS BAND SYSTEMS AVCO-EVERETT RES. REPT147 N63-1457	1 10-23
LUNAR OCCULTATION OF TAURUS A & SOURCES - HIGH RESOLUTION ANGULA DISTRIBUTION			MORSE THEOREM HORSE INDEX THEOREM AND GEOMETRICAL OPTIC AND CALCULUS OF VARIATIONS	F-108
N85-TN-184	N63-23431	24-08	ANL-6730 H63-2275	5 23-23
WIDEBAND LUNAR RELAY COMMUNICAT RECEIVING ARRAY AFCRL-63-332	IONS - ADAPT	1VE 24-08	S MANNED ORBITAL SPACE STATION /MUSS/	Z-FURB
SAME WEST AND THE WORLD THE ST	111111111111111111111111111111111111111	24-00	HOSSBAUER EFFECT	and the second second
ON TO EARTH TRAJECTORY F EARTH EMERGENCY NAVIGATION PROCEDURE I			INFLUENCE OF HIGH PRESSURES ON MOSSBAUER DYSPROSIUM-161 UCRL-10630 N63-14CE	Mark San
CORRECTIONS FOR SPACE VEHICLES		1	KINETICS OF STIMULATED MOSSBAUER RADIATIO	ON - GAMMA
NASA-TN-D-1765	N63-14028	09-22	LASER A10-T-63-106 N63-2301	18 24-25
MOON TO EARTH TRAJECTORIES SATIS	SFYING SPECI	FIED	NOTH SEVERAL OLD THE PRESENCE OF SEVERAL PERSONS	MANUA
MASA-TH-D-1939	N63-19276	18-29	MOTOR RESPONSE IN MOTHS EXPOSED TO LOW-IN	ITENSITY
THREE-BODY MOON-EARTH SATELLITE TRAJECTORY CALCULATIONS FOR INJI PERISELENUM		Algorita Marti Oli	USNRDL-TR-622	LISANEL
NASA-TH-X-50278	N63-19963	19-29	MOTION SA AMGULAR MOTION	13 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1
HOON TO EARTH TRAJECTORIES NASA-CR-50957	M63-21328	21-29	SA PERVING MOTION SA PARTICLE MOTION	- COMPE
ONWATCH PROGRAM SPACEWARN AND MOONWATCH PROGRAM: RELAY PROJECTS — BRAZILIAN PART	- TRANSIT	AND	CF DECELERATION	
THE BEST CALLED TO SHALLOW WINNESS	N63-11023	03-12	CF ROLL CF VELOCITY FREQUENCY MOTION METHODS IN THE SYSTEM TH	FORY FOR
OPTICAL SATELLITE TRACKING PROGRAM. COL	RAM - PHOTOGI		RANDOM HOTTON NGL PAPER-48 N63-1004	The state of the s
NASA-CR-50225	N63-18166	16-10	HORNAL MODES OF MONLINEAR COUPLED SHIP MO	TIONS AND
RPHOLOGY WASTE TREATMENT PROTOZOA - MORPH	IDLOGY AND T		THEIR STABILITY TER SER. 173, ISSUE 5 N63-1016	7 91-11
OF FLAGELLATA HORPHOLOGY OF MICROSTRUCTURES 1/		04-16 AND	MAGNETIC DRIVES FOR PRODUCING ROTATIONAL VACUUM APPARATUS	A TO LO
PREPARATION OF CARBONACEOUS CHOP	NORITES FOR RESTRIAL LIFE	E	FTD-TT-62-1143/16264 N63-1037	1794 0 65673
JPL-TR-32-398	N63-13597	08-29	PLASMA DYNAMICS - POINT CHARGES, INDIVIDU	JAL TON

UCRL-6879

MOTION, TRANSPORT EQUATIONS, MACROSCOPIC BEHAVIOR UCRL-6879 N63-10500 01-24

MOTION OF A PAIR OF VORTICES BEHIND A CYLINDER NHL-1794 02-11

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UNSTEADY MOTIONS THEORY FOR JET-FLAPPED THIN AIRFOIL - CAUSED BY UNSTEADY FLOW N63-15173

NOTION OF A PAIR OF VORTICES BEHILD	ND A CYLING N63-10611		EXPERIMENTS ON GENERATION OF SECU VORTEX CORE REGION WHICH EXHIBIT		N IN
MAGNETIC MEASURING SYSTEM ABL/B-22	N63-11048	03-15	VORTICITY BN-313		11-11
HYDROFOIL MOTIONS IN IRREGULAR SE	AS	Mari I	MOTION OF PLASMA RING THROUGH VAR	RIOUS TRAVEL	
CONTRACTOR CONTRACTOR OF STATE AND ADDRESS.	N63-11313	03-11	MAGNETIC-WAVE PLASMA ACCELERATORS NASA-TN-D-1636	N63-15472	12-24
RADIAL DEFLECTION COMPONENTS OF THE SYMMETRIC MOTION OF A CYLINDRICAL	SHELL		EFFECT OF PLANETARY PERTURBATIONS		
WAL-TR-850/13 MOTION OF CHARGED PARTICLE IN DIPO	N63-11443		EVOLUTION OF METEORS - STUDY OF F ORIONID STREAMS	N63-16663	14-29
FIELD	N63-11584	04-20	EXTREMELY-LOW-FREQUENCY WAVE MOTE AFCRL-63-491	IONS N63-16729	14-24
NEW DEVELOPMENTS IN PHYSIOLOGY AND TO CYBERNETICS JPRS-17117	THEIR REL		BALLISTIC TRAJECTORIES FOR MOVING	TARGET REL	ATIVE
CHECK VALVE DISK MOTION DURING A	FLOW TRANSI	ENT -	SWC-TDR-63-25	N63-16777	14-29
CYCLIC STRESSES WAPD-TM-323	463-11829	04-17	AXISYMMETRIC WAVES IN LINEARIZED FLOW - MOTION EQUATION		
MEASUREMENT OF GROUND WAVE MOTION	IN HALITE	- 1	CONTRACTOR OF STREET	N63-16842	14-11
GNOME PROJECT PNE-128F	163-11928	04-23	PHOTOCHEMISTRY, PHYSICAL STATE AN UPPER ATMOSPHERE BY CHEMICAL RELE AFCRL-63-488		15-12
EVOLUTION AND MOTION OF COLD FRONT WEATHER SYSTEMS AS SHOWN BY METEOR			ELECTRON DENSITY PROFILES OF WAVE		
SATELLITE PHOTOGRAPHS	163-12081	05-21	IONOSPHERE CAUSED BY NUCLEAR DETO	ONATIONS	
THREE-BODY PROBLEM - A SYMMETRIC I	REPRESENTAT		PERCEPTION OF MOTION, EQUILIBRIUM UNDER THE CONDITIONS OF WEIGHTLES	, AND ORIEN	
LIBRATION ORBITS OF A PARTICLE NEA		AR		N63-18940	
POINT IN SEMIRESTRICTED THREE-BODY SAO SPECIAL REPT108	PROBLEM 63-12118	05-29	MOTION CHARACTERISTICS OF TETHERE OPERATORS		
MANY-PARTICLE THEORY - MOTION AS I	NTRINSIC			N63-19092	
PROPERTY OF A PARTICLE, INDEPENDENT MOTIVE FORCES - APPLICATIONS AEC-TR-3406	IT OF EXTER	NAL 05-23	MOTION PERCEPTION AND ORIENTATION VISUAL FIELD		
MOTION OF PARTICLES IN CIRCULAR-TY	PE ACCELER	ATOR	COMPUTER PROGRAM FOR PLANETARY PE COMPUTATIONS USING HANSEN THEORY		
LNF-62-67	163-12569	06-23	NASA-TN-D-1898	N63-19371	18-05
Z-FUNCTION SOLUTIONS FOR MOTION AN ATMOSPHERE ENTRY FROM EQUATORIAL O ROTATING PLANETS	ORBITS OF	DURING	SPACE DETECTION AND TRACKING SYST MATHEMATICAL MODEL TO DESCRIBE OR EARTH SATELLITES		
NASA-TN-D-1555	63-12686	06-29	U-2202	N63-20998	21-32
THEORY OF STABILITY OF MOTION - LI AEC-TR-3352	APUNOV THE 163-13212	ORY 07-23	MOTION PROBLEM FOR HEAVY SOLID BO POINT - SOVIET DATA PROCESSING	DY AROUND F	
SATELLITE OBSERVATIONS OF ECHO-I A	ND DISTURB		DYNAMIC CALIBRATION OF OCEAN WAVE		
WAVE MOTION, ENERGY DISSIPATION, A			CAPACITANCE, AND SONIC PROBES	N63-22120	
TURBULENCE LIMITATION IN FLUID JET			INTERNAL AND CONVENTIONAL WAVES G	ENERATED BY	
ATTITUDE STABILITY OF GRAVITY-ORIE SATELLITE SYSTEMS - PART II, THEOR			HORIZONTALLY MOVING OBJECT IN VER	N63-22973	
ORBITAL PLANE UTIA-89	63-14355	10-30	MEASUREMENT OF THE STATE VECTOR	SUPPLIES OF SUPPLIES	
OPTIMUM CHARACTERISTICS OF SOME HO	TION-		- HE LORDSON AND MANY ALEX LISTED	N63-10202	N. C.
COMPENSATION SYSTEMS - VOL. I, THE APPLICATION OF DOPPLER-INERTIAL SY	STEMS	10-08	APPLICATION OF VARIATIONAL MOTION NONLINEAR VIBRATION ANALYSIS OF H LAYERED PLATES AND SHELLS		
GNOME PROJECT - MEASUREMENT OF INT			AFOSR-TN-2256		
IN HALITE BED PNE-111F	63-14620	10-12	SPATIAL NONSTATIONARY MOTIONS OF MITH SHOCK WAVES AEC-TR-5400	N63-11026	
ROTATING BODY VACUUM MOTION APPROX		RIGID	DYNAMICAL EFFECTS OF FUEL FLOW ON	THE MOTION	OF
SYMMETRICAL BODY WITH SPIN RATE AN VARIANCES	D INERTIA	11-02	BOOSTERS RM-3268-NASA	N63-11051	03-31
HOTION OF PLASMA RING IN COAXIAL F	Audy my back	11-02 IC	ADIABATIC APPROXIMATION FOR DYNAM IN THE MAGNETIC FIELD OF A TAPERE	D SOLENOID	blr-185
FIELD - ACCELERATOR NASA-TR-R-121 N	63-14873	11-24	SLAC-4 PRINT ANDRE NUTTOR HOLERS	N63-11869	04-23
	MANYS AREA		5-00 1970 I-688	SPE-SE-AT-J	

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PULSATION OF VENTILATED CAVITIES	N63-11883		SPACECRAFT ORBITAL RENDEZVOUS MANEUVER - MO EQUATION FOR DOCKING - SPACE MAINTENANCE AMRL-TDR-62-124 N63-15320	12-29
LATERAL RESPONSE OF HYDROSKIMMER DEFLECTION TRG-158-FR	CRAFT TO CO		MOTION EQUATIONS FOR VIBRATION OF THIN RING JPL-TR-32-261 N63-16442	
VIBRATIONS IN UNIFORM BEAM-COLUM THEORY - EQUATIONS OF MOTION FOR ERR-AN-110	BOOSTER VEH	ICLES	AXISYMMETRIC WAVES IN LINEARIZED COMPRESSIBI FLOM - MOTION EQUATION D1-02-0205 N63-16842	LE 14-11
LA GRANGE EQUATIONS BY ANALOG CO COMPUTER METHODS AND MOTION EQUA TR-1088			MOTION OF CONDUCTING & MONCONDUCTING SPHERE THROUGH A COMDUCTING LIQUID IN PRESENCE OF MAGNETIC FIELD N63-16877	
UPPER AND LOWER BOUNDS FOR APSIDOF HEAVY SYMMETRICAL TOP NOLTR-62-131	STOCKLESSON		ANALOG COMPUTERS FOR SOLVING MOTION EQUATION FLIGHT MECHANICS OF AIRCRAFT HAVING RIGID ARIGID STRUCTURES	NS IN ND NON-
AXIAL FLOW IN LONG COUNTERCURRENT EQUATIONS OF HOTION AND ENERGY			FORMATIONS FOR COMPUTING POSITIVE CHARGE OF	16-20 SUN -
K-1535	N63-12103		MOTION AND HEAT EQUATIONS AID-T-63-82 M63-17927	16-05
HYDRODYNAMIC THEORY - CALCULATION SHIP IN WAVES	310-51-10	1894217-	ANALYSIS OF ORBITAL LAUNCH BY LOW THRUST	DEN JOHN T
TRG-140-FR	N63-12183	05-11	PROPULSION - EQUATIONS OF MOTION DCAS-TDR-62-27 N63-18119	16-29
ANALYSIS OF GROUND EFFECT MACHIN SIX-DEGREES-OF-FREEDOM AP-5061-R	N63-12241		MOTION EQUATIONS AND DESIGN OF SINGLE DEGRE FREEDOM GYROSCOPES TO DAMPEN ATTITUDE ERROR	
INERTIA TERMS FOR SMALL MOTIONS			OF EARTH-POINTING SATELLITES	
FLEXIBLE RECTANGULAR CYLINDER	N63-12306		MODEL-CONTROLLED METHOD FOR VARIABLE STABIL	ITY
IONIZATION UPSTREAM OF STRONG SH RADIATION FROM HOT NONEQULIBRIUM DOWNSTREAM OF SHOCK		64-M7 3033-37 47 N-13	AIRCRAFT DEVELOPMENT - COMPLEX MOTION EQUAT SIMULATION - VARIABLE STABILITY HELICOPTER AGARD-402 N63-19110	
CM-1020	N63-12604	06-11	TRAJECTORY DETERMINATION BY LEAST SQUARES	EBEEDON
ORBIT EQUATIONS BASED ON GENERAL AND NOT DEPENDENT ON ORBIT ECCEN	TRICITY	06-29	ACCELERATIONS NASA-TH-X-50270 N63-19390	18-29
NSL-62-13	N63-12633	Mark Donner	UNDERWATER TRAJECTORIES FOR FINNED BODY MIS	SILES -
VAN ALLEN BELTS - MOTION AND ORI IN EARTH RADIATION BELTS	M63-12653	06-28	NONLINEAR MOTION EQUATIONS R-898 N63-19513	19-22
MOTION OF SMALL BODY IN VICINITY LIBRATION POINTS OF EARTH-MOON S		07-29	GYROTHEORY - DIFFERENTIAL EQUATIONS FOR SPI ROTATIONAL SYMMETRIC SATELLITE ATTITUDE CON ORA-63-6 N63-19743	TROL
HYPERSONIC FLOW OURING REENTRY - DYNAMICS, REENTRY BODY SHAPES, E LIFTING REENTRY MOTION EQUATIONS	ALLISTIC AND		HATHEMATICAL ANALYSIS OF MOTION EQUATIONS F NOMENTS AND MOMENTS OF MOMENTUM FOR SIX DEG FREEDC: OF RIGID BODY RS-TR-62-4 N63-19850	
ANALYSIS OF AIR SUPPORTED PENDUL	OUS NORTH SE	EKING	REAL TIME METEOROLOGICAL SYSTEM FOR PRELAUN	CH
GYRO GIVEN THREE-DIMENSIONAL EQUAG-TR-63-1			PREDICTION OF UNGUIDED ROCKET IMPACT - BALL AND MOTION EQUATIONS	ISTIC
FLIGHT CONTROL SYSTEMS, LINEAR TAND VEHICLE EQUATIONS OF MOTION	THE VARYING	SYSTEM	MOTION CALCULATIONS FOR FLYING BODIES WITH	TA YA
ASD-TDR-62-362	N63-13544	08-20	CONTROLS AND DIFFERENT RESTORATION MECHANIS STABILITY AND CONTROL N63-20156	
PRINCIPLES OF CLASSICAL DYNAMICS NYO-10250	- MOTION EQ N63-14060		TRANSFORMATION OF EQUATIONS OF MOTION OF METEOROLOGY INTO ARBITRARY ORTHOGONAL COORD	INATES
AEROELASTICITY - FLUTTER OF WING SURFACES, ALL-MOVABLE TAIL SURFA EQUATIONS, STATIC DIVERGENCE, CO	CES - MOTION INTROL REVERS	AL	AFCRL-62-1109 N63-20732 IMPACT ON ELASTICALLY CONNECTED DOUBLE BEAM	21-21
INTRODUCTORY SURVEY OF AEROELAST	N63-14113		SYSTEM - DIFFERENTIAL EQUATIONS OF MOTION N63-21008	22-33
EQUATIONS, AERODYNAMIC FORCES, C FLUTTER, AERODYNAMIC HEATING			LUNAR ASCENT & RENDEZVOUS WITH ORBITING VEH EQUATIONS OF MOTION ORIGINATING AT ORBITAL N63-23220	RATE
APPROXIMATE FORMULAS FOR FLUTTER AEROELASTICITY	PREDICTION N63-14120	09-20	MOTION PICTURE CF CINEMATOGRAPHY	10016JA
PLASTIC BEHAVIOR OF CONTROL SURF SUBJECTED TO AIR BLAST LOADING - RESULTS FOR BEAM TYPE STRUCTURES	ANALYSIS AN		MOTION SICKNESS MOTION SICKNESS DURING WEIGHTLESS STATE - PROPHYLAXIS AND ETIOLOGY	USE REF
ASYMPTOTIC SOLUTION OF MACLAURING STABILITY FOR SMALL KINEMATIC VI		1,131 1,131 (M/198	MOTION SICKNESS FROM FLIGHTS IN C-1318 CARG AIRCRAFT NOS-19027	O TYPE
MRC-373	N63-14594	10-11	PSYCHOLOGICAL AND PHYSIOLOGICAL ETIOLOGY OF	Absorber 18 Mar
	8 A - C 2 - DOT 1		and the state of t	(Catalana)

DISTRIBUTION & METABOLISM OF MERCAPTOETHYL-GUANIDINE AND BIS /GUANIDOETHYL/ DISULFIDE IN MICE SAM-TDR-62-68 N63-20619 20-16 HO

SICKNESS N63-19828 19-16	BY X-IRRADIATED MICE USNRDL-TR-625 N63-14712 10-16
SYMPTOMATOLOGY AND INCIDENCE OF MOTION SICKNESS N63-19829 19-16	EFFECT OF PULSED RADIATION IN PRODUCING DEATH IN
ETIOLOGY OF MOTION SICKNESS N63-19830 19-16	USNRDL-TR-627 N63-14887 11-16
ETIOLOGY OF VOMITING DURING WEIGHTLESS MANEUVER - MOTION SICKNESS N63-19831 19-16	RESPONSE OF IRRADIATED AND NON-IRRADIATED MICE, SENSITIZED BY VARIOUS MEANS, TO ALLOGENIC AND XENGGENIC SKIN GRAFTS
DRUGS FOR PROPHYLAXIS AND TREATMENT OF MOTION SICKNESS N63-19832 19-16	USNRDL-TR-628 N63-15068 11-16 BIOTHERMAL STRESS EFFECTS ON CELLULAR STRUCTURE
MOTION SICKNESS AND SPATIAL PERCEPTION N63-19833 19-16	AND FUNCTION - MOUSE KIDNEY CELLS AMRL-TDR-63-14 AND FUNCTION - MOUSE KIDNEY CELLS AMRL-TDR-63-14
MOTION SICKNESS EXPERIENCES IN WEIGHTLESS FLIGHTS N63-19834 19-16	TRANSPLANTATION OF IMMUNOLOGICALLY COMPETENT IRRADIATED BLOOD CELLS IN MICE - HOMOGRAPH USNRDL-TR-630 N63-15560 12-16
PERSONAL EXPERIENCES DURING WEIGHTLESSNESS IN JET AIRCRAFT AND ON SUBGRAVITY TOWER N63-19835 19-16 MOTION SICKNESS AS PROBLEM OF SPACE MEDICINE	DIFFERENTIAL RADIOSENSITIVITY OF FIRST AND SECOND SET RESPONSES TO ALLOGENIC AND XENGGENIC SKIN GRAFTS IN SUBLETHALLY IRRADIATED MICE USNROL-TR-636 N63-16352 14-16
N63-21504 22-16	RADIATION EFFECT AND RADIATION PROTECTION IN RATS
MOTION SIMULATOR ATTITUDE CONTROL REQUIREMENTS FOR HOVERING VTOL	AND MICE N63-17036 15-16
AIRCRAFT UTILIZING AMES PILOTED SIMULATOR N63-14699 10-04	RADIATION PROTECTION - EFFECT OF CHEMICAL COMPOUNDS ON MICE EXPOSED TO LETHAL RADIATION DOSE N63-17040 15-16
MOTIVATION FOR SPACE EXPLORATION — INTERNATIONAL LEADERSHIP AS THE REPRESENTATIVE OF CAPITALISM N63-17809 16-29	RADIATION PROTECTION - PHARMACOLOGY AND TOXICOLOGY IN PROTECTION FROM RADIATION DAMAGE - CYANIDE EFFECT ON LETHAL RADIATION DOSE IN MICE
MOTIVATION FOR SPACE EXPLORATION AND RESEARCH N63-23437 24-01	N63-17041 15-16 CHEMICAL COMPOUNDS USED IN PHARMACOLOGY AND
MOTOR S ELECTRIC MOTOR	TOXICOLOGY AS RADIATION PROTECTION AGENTS — EFFECT OF CHEMICALS ON LIFESPAN IN X—IRRADIATED MICE N63—17042 15—16
S SYNCHRONOUS MOTOR CF ENGINE	CHEMICAL COMPOUNDS USED IN RADIATION PROTECTION OF MICE - PHARMOCOLOGY AND TOXICOLOGY
MOTOR CASE SA ROCKET MOTOR CASE EFFECTS OF MECHANICAL DAMAGE ON PERFORMANCE OF	N63-17043 15-16 EFFECT OF GAMMA OR FAST NEUTRON RADIATION DOSES ON
FILAMENT-WOUND MOTOR CASES GER-11154A N63-21035 21-33	ANIMAL LIFESPAN - CHEMICAL COMPOUND PROTECTION IN PROTON IRRADIATED MICE N63-17044 15-16
MECHANICAL DAMAGE EFFECTS ON PERFORMANCE OF FILAMENT WOUND MOTOR CASE GER-111548 N63-23559 24-17	GAMMA AND FAST NEUTRON RADIATION EFFECTS — PATHOLOGY IN MICE GIVEN CHEMICAL COMPOUNDS FOR RADIATION PROTECTION PRIOR TO PROTON IRRADIATION M63-17045 15-16
MOUNT S HEAD MOUNTING	GAMMA AND FAST NEUTRON RADIATION - REPRODUCTION IN MICE AND LIFESPAN AFTER IRRADIATION
MOUNTAIN TURBULENCE INDUCED IN STABLE, STRATIFIED AIRSTREAM	N63-17047 15-16
BY AIR FLOW OVER MOUNTAINS N63-16819 14-11	CHROMOSOME ABERRATION IN X-RAY IRRADIATED MICE - HIGH AND LOW DOSE RATE
MOUNTAINS - ROLE IN ENERGY BUDGET OF THE ATMOSPHERE N63-19572 19-21	USNROL-TR-644 N63-17613 16-16 EFFECT OF HYPOXIA ON RATE OF OXYGEN CONSUMPTION IN
MOUSE SA POCKET MOUSE	MICE UNDER VARIOUS ENVIRONMENTS SAM-TDR-62-122 N63-19095 18-16
EFFECT OF INTESTINAL MICROORGANISMS ON RADIATION SICKNESS IN MICE JPRS-17170 N63-11840 04-16	INTRAPERITONEAL CHALLENGE OF ADULT ALBINO MICE WITH TYPE 8-1 COXSACKIE VIRUS UNDER CONDITIONS OF
TISSUE INJURY REPAIR RATE AND IRREPARABILITY DURING PROTRACTED EXPOSURE OF MICE TO IONIZING	ACCLIMATIZATION AND NONACCLIMATIZATION AT 2-DEG C AAL-TDR-62-56 N63-19238 18-16
RADIATION UR-621 N63-11845 04-16	SALMONELLA-INFECTED MICE EXPOSED TO ACUTE COLD ENVIRONMENT - RESPIRATORY SYSTEM AS SOURCE OF SECONDARY STAPHYLOCOCCUS INFECTION
BIOLOGICAL AND PHYSIOLOGICAL STUDIES OF PEROGNATHUS, POCKET MICE	AAL-TDR-62-49 N63-19455 19-16
MSL-62-125-2 N63-12356 06-16 IMPACT SENSITIVITY OF MICE - ACCELERATION STRESS, BIODYNAMICS N63-12873 07-16	LIGHT ENERGY CONVERSION EFFICIENCY OF ALGAL CULTURES - CLOSED ECOLOGICAL SYSTEM OF MICE, ALGAE AND BACTERIA IN MICROENVIRONMENTS SERL-63-6 N63-19544 19-16
DIFFERENTIAL RADIOSENSITIVITY OF FIRST AND SECOND	FREEZE STORAGE TECHNIQUES FOR HOUSE BONE MARROW
SET RESPONSES TO ALLOGENIC AND XENOGENIC SKIN GRAFTS IN LETHALLY IRRADIATED MICE USNRDL-TR-619 N63-13854 09-16	EUL-S EUR-242.E N63-20489 20-16
PTOWN SACONDO	DISTRIBUTION & METABOLISM OF MERCAPTOETHYL-

DIFFERENTIAL EFFECT OF SPECIFIC ANTISERA ON REJECTION OF ALLOGENIC AND XENOGENIC SKIN GRAFTS

-16 . -16

-16

-16

-16

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16 IN 16

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E

	CORNEAL EPITHELIUM MITOSIS IN MI GAMMA IRRADIATION - RADIATION EF JPRS-20735	FECT ON EYE	BØ 457	MULTIPLEX FREQUENCY AMPLIFIER - MASA-CR-50334		
ķ.	EMBRYO ABNORMALITIES IN IRRADIAT JPRS-20960		CE	MULTIPLIER SA LAGRANGE MULTIPLIER SA PHOTOMULTIPLIER	OUR COLUMN AND AND AND AND AND AND AND AND AND AN	MIN DI
	TOXICITY IN MICE AT LOW BODY TEN	IN URINE		PULSE MODULATION DEVICE USED AS MULTIPLIER AND DIVIDER UCRL-10754		
	AAL-TDR-62-63 MECHANISMS OF INFECTION WITH SAL	N63-21399 MONELLA IN P		ANALOG MULTIPLIER DEVELOPMENT B		
	KEPT AT LOW TEMPERATURES AAL-TOR-62-7	N63-21400	22-16	MULTIPLIER PHOTOTUBE RADIATION SURROUNDING SPHERES OF	F NYLON. LEXA	MIC-1
	CYTOLOGICAL AND HISTOLOGICAL CHA HEMATOPOIETIC ORGANS OF MICE UND SPACE FLIGHT - SPACE BIOLOGY	NGES IN DER INFLUENCE N63-21507	OF 22-16	KEL-F IN AIR, NITROGEN & CARBON BY MULTIPLIER PHOTOTUBE SYSTEM NOLTR-63-154	N63-22492	CTED 23-19
	LIMITED ROLE OF ADULT THYMUS IN HOMOGRAFT RESPONSE IN IRRADIATED USNRDL-TR-661			MULTIPOLAR FIELD LAGALLY THEOREM FOR MULTIPOLES	N63-13675	
	EFFECT OF CENTIMETER RADIO WAVES		X8	MULTIPOLAR CUSP MAGNETIC FIELD CONFINEMENT AND ADIABATIC COMPR	ESSION OF PLA	SMA
	JPRS-21200 COLD AMBIENT TEMPERATURE EFFECT	N63-22588 UPON ADRENAL	-33	MULTISTAGE MISSILE	WATER STREET,	
	GLANDS IN MICE AAL-TDR-62-58	N63-22714	23-16	NONLINEAR TRANSVERSE AXISYMMETR SHALLOW SPHERICAL SHELLS		
	HOMOGRAFT TOLERANCE IN SUBLETHAL ADULT MICE USNROL-TR-668	TAKLER		STATIC LONGITUDINAL STABILITY A STAGE MISSILE CONFIGURATION AT SPEEDS	ND ROLL OF TH SUPERSONIC	REE-
	EFFECT OF CYSTEAMINE PROTECTION POTENTIOMETER DETERMINATION		1	NASA-TH-X-124 MULTISTAGE ROCKET	N63-12556	06-02
	THYMIDINE, HEMOGLOBIN, AND ERYTHINVESTIGATION OF ERYTHROPOIESIS	ROPOIETIN US	SED IN	RADIO-ATTENUATION MEASUREMENT / STAGE SOLID-PROPELLANT ROCKET V PERFORMANCE AND DESIGN MASA-TW-D-1611	RAM A1/ TEST, EHICLE -	
	BREEDING OF HETERONYID RODENTS - BIBLIOGRAPHY	HIN SEEDING	335-41	SPACECRAFT GUIDANCE - MULTISTAG TRAJECTORIES	Mo	14-29
NO	VING PICTURE CAMERA MOVIE-THEODOLITE MEASUREMENT OF TRAJECTORIES	PARACHUTE		OPTIMIZING MULTISTAGE ROCKETS F CONVERSION EFFICIENCY AFOSR/DRA-62-14	ROM ENERGY	16-31
не	WGL PAPER-26	N63-10024	01-03	SCALING AND PERFORMANCE ANALYSI	CVET VEHICLE	
5	MOLTEN-SALT REACTOR /MSRE/			RTD-TDR-63-1060	N63-23722	24-02
MU	LLITE THERMODYNAMIC PROPERTIES OF MULL TEMPERATURE HEAT CAPACITY AND HI	ITE - LOW-	URE MAN	MULTISTAGE VEHICLE PREDICTION AND MEASUREMENT OF N OF MULTISTAGE LAUNCH VEHICLES		
	HEAT CONTENT	N63-21711	22-13	MULTIVISRATOR PLANTS AND		
MU	LTICHANNEL REGEIVER ASYMPTOTIC PERFORMANCE CHARACTER COHERENT ADAPTIVE & NONCOHERENT	MULTICHANNEL	MARK TO STATE OF THE PARTY OF T	CIRCUITS USING SELF-DSCILLATING MAGNETIC-COUPLED MULTIVIBRATORS NASA-CR-50939	N63-22246	
	RECEIVERS NASA-CR-50655	N63-18367	17-08	MUON CF ELEMENTARY PARTICLE	De Will Medicine	ART OF
	ERROR PROBABILITIES FOR RICIAN F RECEPTION OF BINARY AND N-ARY SI NASA-CR-51853			POLARIZATION OF NU-MESONS, WITH IN MAGNETIZED IRON PLATES OF SP LNF-62-61	ARK CHAMBER	06-23
MU	LTIPATH PROPAGATION ASPECT-SENSITIVE SPREAD AND MULT OFF-AZIMUTH HF ARCTIC SIGNALS LA AFCRL-62-777.	TIPATH DELAY NRGELY ABOVE N63-14220	MUF	DETECTION OF PHOTOPRODUCED MUON DOUBLE COINCIDENCE METHOD DISTI PIONS, AMD ELECTRONS LNF-62-63	NGUISHING MUC	
	FLUX SWITCHING IN MULTIPATH FERF	ITE CORE	17-09	CORRELATION OF HUGH SPINS IN HU PRODUCTION BY UNPOLARIZED PHOTO LNF-62-75	ON PAIR	
C	LTIPLE AIRBORNE TARGET TRAJECTORY F TARGET F TRAJECTORY	SYSTEM /MAT		SPECTRA AND PROBABILITIES OF ET ELECTRON-POSITRON DECAY MODE & MODE - TWO-LEPTON SYSTEMS - NUC	A-MESON DECAY BY MUON-MUON LEAR PHYSICS	DECAY
	MODIFIED MATTS TRACKING STATION APGC-TDR-62-14	EVALUATION N63-15196	11-15	MUON FLUX AT SEA LEVEL - INTENS	NA3-15569	
MU	LTIPLEXER MULTIPLEXING SUBSYSTEM FOR TELEP REACTOR CORE	NETRY SYSTEM	IN	CORRELATIVE TO METEOROLOGICAL P	ARAMETER VARI	EATIONS
mili	REACTOR CORE	N63-11947	04-08	COSMIC RAY PRODUCTION OF MUONS MASSIVE RADIATION SHIELDS - EFF		

GAMMA RAY BACKGROUND RADIATION MEASUREMENTS N63-17308 15-23	MUTATION CF GENETICS MUTATIONS IN CHLORELLA VULGARIS PRODUCED BY
BEVATRON OPERATION - K INTERACTIONS IN HYDROGEN, POLARIZATION OF MU MESONS, PION BEAM INTERACTIONS, MUON SCATTERING	IRRADIATION WITH ULTRAVIOLET LIGHT JPRS-20609 N63-19912 19-16
UCRL-10613 N63-19223 18-23	MUTATIONAL ACTIVITY OF ANTIPARTICLES - SPACE BIOLOGY N63-21531 22-16
KNOCK-ON ELECTRONS OF FAST MU-MESON N63-19989 19-23	EFFECT OF HIGH ENERGY PROTONS ON OCCURRENCE RATE OF MUTATIONS - SPACE BIOLOGY N63-21532 22-16
HIGH ENERGY PHYSICS AND NUCLEAR STRUCTURE - COMPLEX NUCLEI, HIGH ENERGY ELECTRON SCATTERING, PIONS, NUCLEONS, DEUTERONS, AND MUONS CERN-63-28 N63-21196 21-23	MX-1764 AIRCRAFT EFFECT OF JET-ENGINE AIR-INLETS ON LOW SPEED STATIC LONGITUDINAL STABILITY AND QUANTITY FLOW OF
POSSIBILITY OF RESONANT INTERACTIONS OF THE MUON N63-22996 23-23	MX-1764 AIRCRAFT NACA-RM-SL54A06 N63-12762 06-03
TRANSITION PATHS OF NEGATIVE MUONS CAPTURED IN	EFFECT OF JET ENGINE AIR-INLETS ON LOW SPEED STATIC LATERAL STABILITY OF MX-1764 AIRCRAFT NACA-RM-SL54C12 N63-12763 06-03
SOLIO LITHIUM UCRL-10965 N63-23712 24-23	NACA-RM-SL54C12 N63-12763 06-03 MYLAR
MUON CAPTURE HUON CAPTURE IN HYDROGEN	CORRECTIONS FOR VARIABLE ABSORPTION OF SOFT X-RAYS BY MYLAR - EMPIRICAL METHOD - FLUORESCENCE
LNF-62/109 N63-14799 11-23	ANALYSIS RK-TR-63-7 N63-16168 13-23
HURRAY METEORITE ULTRAVIOLET ABSORPTION BY MURRAY METEORITE - RESIN TREATMENT N63-14636 10-07	INSTRUMENT CAPABLE OF EXAMINING MULAR MATERIAL FOR CRATERS DUE TO MICROMETEOROID IMPACT
ULTRAVIOLET-ABSORBING COMPOUNDS REPORTED PRESENT IN MURRAY METEORITE	IT-1067 N63-21793 22-29
NASA-CR-50299 N63-17157 15-12	EFFECTS OF AGING ON M17 PROPELLANT PA-TR-3019 N63-12605 06-26
MUSCLE CF CONTRACTION	er-ex with the second and a second se
SKELETAL MUSCLE ACTIVITY FOLLOWING IMPACT ARL-TDR-62-26 N63-11038 03-16	N-P JUNCTION RADIATION RESISTANT SOLAR CELLS - N ON P CELLS
SERVO PROPERTIES OF THE GASTROCHEMIUS MUSCLE OF THE CAT	WITH BASE REGION IMPURITY GRADIENT WHICH ACCELERATES MINORITY CARRIERS TOWARD THE JUNCTION
AMRL-TDR-62-108 N63-11787 04-16	EOS-2080-IR-1 M63-13961 09-06
REFLEX BRISKNESS - TENDON REFLEXES ARL-TDR-62-27 N63-11791 04-16	N-STAGE PROCESS ASYMPTOTIC THEORY OF CONTROL - STOCHASTIC AND DETERMINISTIC N-STAGE PROCESSES
TONUS OF RABBIT EYE MUSCLE UNDER WEIGHTLESSMESS NASA-TT-F-131 N63-13223 07-16	JPL-TR-32-21 H63-15278 12-20
HUMAN SKELETAL MUSCLE MYOGLOBIN CONTENT AND HIGH ALTITUDE ADAPTATION SAM-TDR-62-89 N63-13342 08-16	NACELLE CF EXTERNAL STORE EFFECT OF LARGE STORE /NACELLE/ ON A SWEPT-WING HEAVY BOMBER - LATERAL FORCE AND PITCHING MOMENTS
BIOELECTROSTIMULATOR FOR CONTROL OF FUNCTIONING OF INDIVIDUAL NEUROMUSCULAR SYSTEMS AND ORGANS	NACA-RM-L55E26A N63-13868 09-07 NANOSECONO
FTD-TT-62-1593/164 N63-18072 16-16 ELECTROMYOGRAPHIC STUDIES OF PRIMARY MYOPATHIC AND	MICROWAVE GAS BREAKDOWN WITH EMPHASIS ON NANOSECOND PULSE BREAKDOWN - PLASMA CONDUCTIVITY EFFECT ON ELECTROMAGNETIC PROPAGATION, RADAR
NEUROGENIC MUSCULAR ATROPHY N63-18963 18-16	RADC-TDR-62-616 N63-15095 11-24
NEURAL CONTROL OF CILIARY MUSCLE - EYE ACCOMMODATION FOR DISTANT VISION	NANOSECOND ELECTRON ACCELERATOR - DESIGN, OPERATION, AND MAINTENANCE
CARI-63-5 N63-19400 18-16	ANL-6700 N63-15538 12-01
MUCLEIN METABOLISM IN REGENERATION OF SKELETAL MUSCLES BY QUANTITATIVE AUTORADIOGRAPHY JPRS-20997 N63-22587 23-16	NANOSECOND PULSE IN AIR - LENGTH, GENERATION, AND BREAKDOWN RADC-TOR-63-82 N63-15714 12-2:
MUSCULAR SYSTEM PHYSICAL EXERCISE FOR COSMONAUTS UNDER HIGH AND	RESPONSE OF KLYSTRONS TO MANUSECOND PULSES - HIGH POWER AMPLIFIERS, ELECTRON BEAM BALLISTICS,
LOW GRAVITY - MUSCULAR COORDINATION AND SKILLS N63-21503 22-16	MICROWAVE TUBE EE-542 N63-16018 13-0
BIOELECTRICAL ACTIVITY OF MUSCULAR SYSTEM IN NEURO-MUSCULAR DISEASES JPRS-21034 N63-22433 23-16	NANOSECOND STUDY - RESPONSE OF MICROWAVE TUBE RESONANT CAVITY TO FREQUENCY OF INPUT PULSE WITH GAUSSIAN ENVELOPE
MUSEN THEORY	EE-541 N63-16019 13-0
ANALYTIC REPRESENTATION OF MUSEN THEORY OF SATELLITES IN TERMS OF ORBITAL TRUE LONGITUDE NASA-TVN-D-1469 N63-12075 05-29	AMPLIFICATION BY PULSED MICROWAVE AMPLIFIERS IN NAMOSECOND PULSE RANGE N63-21641 22-2:
MUSTANG WING RESIDUAL STRENGTH OF MUSTANG WINGS CONTAINING FATIGUE CRACKS — CRACK PROPAGATION	HAPHTHALENE EFFECTS OF ION ASSOCIATION ON ENERGY TRANSFER RATES IN MAPTHALENE-NAPTHALENIDE SYSTEMS MEASURED BY PARAMAGNETIC RESONANCE LINE BROADENING METHOD
N63-20099 20-18	N63-12400 06-01
NAVITY BANTATION SHITTED - CREETED ON LOW BANKER	HEAT OF VAPORIZATION OF DIPHENYLS, NAPHTHALENE AND

F

3 S 3 R 9

D

ISONERS OF TERPHENYL N63-19495 19-07	NASA MANNED SPACE FLIGHT PROGRAMS - RERCURY, ONE- DAY MISSIONS, GEMINI, AND APOLLO N63-12838 06-32
ORBITAL ENERGY & TRANSITION MOMENTS FOR ABSORPTION SPECTRA OF NAPHTHALENE WITH NEGATIVE & POSITIVE IONS 10NS	NASA SPACE PROGRAMS - INTERNATIONAL COOPERATION N63-12840 06-01
HAPHTHALENIDE EFFECTS OF ION ASSOCIATION ON ENERGY TRANSFER RATES IN NAPTHALENE-NAPTHALENIDE SYSTEMS MEASURED BY PARAMAGNETIC RESONANCE LINE BROADENING METHOD	NASA-SPONSORED SPACE RESEARCH - GEODESY, EARTH-SUN RELATIONSHIPS, MOON AND PLANETS, AND ASTRONOMY - SATELLITE AND SPACE PROBE DATA REVIEW M63-12841 06-29
N63-12400 06-07	REVIEW OF NASA IMPACT WORK - APOLLO PROJECT, HUMAN
NASA PROGRAM CF SPACE PROGRAM	TOLERANCE, ACCELERATION STRESS N63-12845 07-16
ROCKETS IN MASA SPACE PROGRAM	MASA-SP-40 N63-21126 21-01
N63-10232 01-31	HEAVY-PARTICLE ELECTROSTATIC THRUSTORS - NASA PROGRAM
THE CHALLENGE OF SPACE EXPLORATION N63-10495 01-29	IAS PAPER-63-19 N63-12086 07-27
SEMANTE CONCENTRE HARALING MEL-22242 11-03	NASA GEOPHYSICS AND ASTRONOMY PROGRAM FOR SPACE EXPLORATION NAS-13173 07-12
LAUNCH VEHICLES OF THE NATIONAL LAUNCH VEHICLE PROGRAM, NASA PROGRAMS	
NASA-SP-10 N63-10712 02-31	NASA GEOPHYSICS AND ASTRONOMY PROGRAMS N63-13215 07-05
STATEMENT OF NASA ADMINISTRATOR BEFORE HOUSE COMMITTEE ON SCIENCE & ASTRONAUTICS - NASA PROGRAMS, SPACE SCIENCE, ASTRONAUTICS N63-10910 02-29	NASA CONSIDERS DATA COLLECTION SATELLITE SYSTEM - OCEANOGRAPHIC & METEOROLOGICAL APPLICATIONS N63-13587 08-32
PROPOSED TREATY FOR BANNING MEAPONS IN SPACE JPL-SM-40-1 N63-10953 02-01	NASA SEVENTH SEMIANNUAL REPORT TO CONGRESS, JAN 1 THROUGH JUNE 30, 1962 N63-13635 08-01
SPACE SCIENCES - GEOPHYSICS, METEOROLOGY N63-11413 03-12	NASA PROGRAM FOR ELECTRIC PROPULSION - RESISTANCE- HEATED HYDROGEN THRUSTOR N63-13670 08-24
NASA AUTHORIZATION, 1963, PART 1, APPROPRIATIONS - CONGRESSIONAL HEARINGS N63-11658 04-01	NASA PROGRAMS FOR SPACE EXPLORATION NASA-AL-8-2-63 N63-13744 08-01
NASA AUTHORIZATION, 1963, PART 2, MANAGEMENT PHASE - CONGRESSIONAL HEARINGS	SPACE EXPLORATION - RESULTS, PLANS, AND MOTIVATION N63-14291 10-29
NASA AUTHORIZATION, 1963, PART 3, ADVANCED RESEARCH AND TECHNOLOGY - CONGRESSIONAL HEARINGS N63-11660 04-01	SPACE PROGRAMS SUMMARY NO. 37-19 - VOL 6, NOV 196 TO JAN 1963 - SPACE EXPLORATION PROGRAMS & SPACE SCIENCES - DSIF, RANGER, MARINER & VOYAGER PROJECT JPL-SPS-37-19, VOL. VI N63-14902 11-24
NASA AUTHORIZATION, 1963, PART 4, SPACE SCIENCES PROGRAM - CONGRESSIONAL HEARINGS N63-11661 04-01	NASA PROGRAM FOR SPACE RADIATION EFFECT LABORATORY TO STUDY SPACE ENVIRONMENT FOR SPACE SYSTEM ENGINEERING
NASA AUTHORIZATION, 1963, METEOROLOGICAL AND	EP-63-678 3 33412 MI 28374YUA UN63-15165 11-29
COMMUNICATIONS SATELLITES, TRACKING - CONGRESSIONAL HEARINGS N63-11662 04-08	NASA-INDUSTRY PROGRAM PLANS CONFERENCE NASA-SP-29 N63-15357 12-0
PROPOSED AMENDMENT TO NATIONAL AERONAUTICS AND SPACE ACT OF 1958 N63-11724 04-01	FUTURE DIRECTIONS OF NASA SPACE PROGRAMS N63-16226 13-0
NASA AERONAUTICAL RESEARCH PROGRAM - HELICOPTERS, SUPERSONIC TRANSPORT, STOL VEHICLES, MULTIMISSION AIRCRAFT & X-15 - CONGRESSIONAL HEARINGS	SUPERSONIC TRANSPORT MATERIALS - MASA PROGRAMS NASA-TN-D-1798 N63-16296 13-1
N63-12138 05-01	LUNAR PROGRAM OBJECTIVES, MISSIONS, ORGANIZATION,
SPACE COMMUNICATIONS - NASA PROGRAMS, TRACKING,	AND SUPPORTING ACTIVITIES JPL-EPD-22 N63-16558 14-2
AND DATA PROCESSING N63-12295 05-06 NASA PROGRAMS - GENERAL SUCCESS FACTORS INVOLVED	REPORT OF NASA SUMMER INSTITUTE IN SPACE PHYSICS NASA-CR-50131 N63-16726 14-2
N63-12364 06-01	CONNERCIAL SPACE COMMUNICATION - MASA PRODUNT
CHRONOLOGY OF MAJOR LAUNCHINGS OF SPACE VEHICLES	MASA SPACE FLIGHT PROGRAM N63-16748 14-3
BY NASA N63-12365 06-01	INDUSTRIAL DISTRIBUTION OF NASA TECHNOLOGY N63-17458 15-0
SPACE EXPLORATION & SPACE SCIENCE - CONFERENCE ADDRESSES NASA-EP-5 N63-12715 06-01	NATIONAL AERONAUTIC AND SPACE AGENCY SPACE RESEARCH PROGRAM N63-17759 16-0
SPACE BIOLOGY - NASA PROGRAMS N63-12834 06-16	INDUSTRIAL USAGE OF NASA-GENERATED SPACE TECHNOLOGY
INTERDISCIPLINARY COMMUNICATION AMONG SCIENTISTS -	NASA-CR-50630 N63-10314 17-0 UTILIZATION OF NASA SPACE TECHNOLOGY BY MIDWESTER
NASA PROGRAMS N63-12835 06-16	INDUSTRY
OBJECTIVES OF SPACE BIOLOGY - SEARCH FOR EXTRA- TERRESTRIAL LIFE, SUPPORT OF MANNED SPACE FLIGHT,	NASA-CR-50648 N63-18316 17-0
STUDY OF ORGANISM-ENVIRONMENT RELATIONSHIPS N63-12836 06-16	CHRONOLOGY OF MAJOR NASA LAUNCHINGS NASA-TM-X-50133 N63-18405 17-3
LIFE SUPPORT FOR MANNED SPACE FLIGHT - NASA PROGRAMS N63-12837 06-16	NASA POLÍCIES AND PROCEDURES FOR SATELLITE RELIABILITY THROUGH ENVIRONMENTAL TESTS - REVIEW

HAT

NAV

HAV SA SA SA SA CF CF CF CF CF CF CF CF

OF SATELLITE PROGRAM NASA-TN-D-1853 N63-18661 17-17	ROLE OF SUBCONTRACTOR IN MASA PROGRAMS N63-21150 21-01
UTILIZATION OF SPACE TECHNOLOGY FROM NASA PROGRAMS IN MIDWESTERN INDUSTRY NASA-CR-50649 N63-18857 18-01	SYSTEMS ENGINEERING AS TOOL TO IMPROVE MANAGEMENT OF DEVELOPMENT PROGRAMS - NASA PROGRAM N63-21151 21-06
NASA TO LAUNCH POLAR ORBIT IONOSPHERE BEACON	MANAGEMENT OF SPACE PROGRAM AT FIELD CENTER - MASA
SATELLITE S-66 N63-19158 18-32 ACCOMPLISHMENTS AND GOALS OF U.S. NATIONAL SPACE	N63-21152 21-01 NASA PROCUREMENT POLICIES FOR CONTRACTORS
PROGRAM N63-20929 21-29 CONFERENCES ON SPACE-AGE PLANNING AND ON PEACEFUL	N63-21153 21-01 IMPACT OF AEROSPACE RESEARCH CENTER ON MIDWEST
USES OF SPACE - NASA PROGRAM NASA-SP-40 NASA-SP-40 NASA-SP-40	INDUSTRY - MASA PROGRAM N63-21154 21-01
NASA PROGRAM FOR EXPLORATION OF SPACE N63-21127 21-32	NUCLEAR PROPULSION - AN EMERGING TECHNOLOGY - NASA PROGRAM N63-21153 21-27
RESULTS OF SCIENTIFIC SATELLITES LAUNCHED BY NASA	NASA PROGRAM FISCAL YEAR 1964 AUTHORIZATION - SENATE COMMITTEE HEARING N63-21342 21-01
PROGRAM . N63-21128 21-32 SPACE SCIENCE - LUNAR AND PLANETARY EXPLORATION -	NASA PROGRAM FISCAL YEAR 1964 AUTHORIZATION - SENATE COMMITTEE HEARING N63-21343 21-01
NASA PROGRAM N63-21129 21-32 MANNED SPACEFLIGHT PROGRAM OF NASA	NASA HISTORICAL ORIGINS AND PROGRAM N63-21927 22-01
N63-21130 21-29	NASA APPROPRIATIONS HEARING BEFORE COMMITTEE ON
LARGE LAUNCH VEHICLES IN MANNED SPACE PROGRAM - NASA PROGRAM N63-21132 21-30	SCIENCE AND ASTRONAUTICS N63-21930 22-01 U.S. SPACE PROGRAM - NASA CONTRIBUTION TO
HUNAN FACTOR IN MANNED SPACE FLIGHT - NASA PROGRAM N63-21133 21-14	KNOWLEDGE OF ATMOSPHERIC COMPOSITION NASA-TM-X-50963 24-29
RESEARCH BASIS FOR FUTURE NASA SPACE PROGRAMS N63-21134 21-01	APPROPRIATIONS FOR MASA - HOUSE OF REPRESENTATIVES REPORT N63-23074 24-01
COMMUNICATION, METEOROLOGICAL, AND FUTURE APPLICATIONS SATELLITES - NASA PROGRAM	AUTHORIZING APPROPRIATIONS FOR NASA N63-23421 24-01
N63-21135 21-08	PROJECTED NASA SPACE PROGRAMS FOR 1962-1975
UNMANNED INSTRUMENTED SPACECRAFT FOR EXPLORATION OF SOLAR SYSTEM - NASA PROGRAM N63-21136 21-32	NASA APPROPRIATIONS HEARINGS, 1964
INTERNATIONAL COOPERATION IN SPACE EXPLORATION - NASA PROGRAM N63-21137 21-01	N63-23600 24-01 NATIONAL AERONAUTICS AND SPACE ACT NATIONAL AERONAUTICS AND SPACE ACT AS AMENDED
CONTRIBUTION OF EDUCATIONAL AND RESEARCH PROGRAMS TO MANPOWER AND ADVANCES IN SPACE SCIENCE - NASA PROGRAM N63-21138 21-01	THROUGH OCTOBER 1962 N63-11130 03-01 PROPOSED AMENDMENT TO NATIONAL AERONAUTICS
UNIVERSITY RESEARCH ACTIVITIES AND IMPACT ON	AND SPACE ACT OF 1958 N63-11724 04-01 OWNERSHIP OF PATENTS ORIGINATING UNDER GOVERNMENT
GOALS OF SPACE SCIENCE PROGRAM AND RELATIONSHIP OF	CONTRACTS FOR AERONAUTICAL & SPACE RESEARCH - CONGRESSIONAL HEARINGS N63-11804 04-01
UNIVERSITIES TO SPACE EXPLORATION - MASA PROGRAM N63-21140 21-01	PATENT RIGHTS FOR COMMUNICATIONS SATELLITES - MASA POLICY M63-19592 19-01
ECONOMIC EFFECT OF SPACE PROGRAM - NASA N63-21141 21-01	MATIONAL LAUNCH VEHICLE PROGRAM LAUNCH VEHICLES OF THE NATIONAL LAUNCH VEHICLE
FUTURE OF SMALL BUSINESS IN SPACE AGE PROGRESS - NASA PROGRAM N63-21142 21-01	PROGRAM, NASA PROGRAMS NASA-SP-10 N63-10712 02-31
FREE ENTERPRISE IN SPACE - DEVELOPMENT OF COMMERCIAL SPACE COMMUNICATION - MASA PROGRAM N63-21143 21-01	MATIONAL SEVERE STORMS PROJECT DYNAMICS OF SEVERE CONVECTIVE STORMS NSSP-9 N63-10209 01-21
SPACE TECHNOLOGY AND ITS POTENTIAL FROM INDUSTRIALISTS VIEWPOINT - NASA PROGRAM N63-21144 21-01	KINEMATIC PROPERTIES OF SMALL-SCALE WEATHER SYSTEMS, THUNDERSTORMS AND SEVERE WEATHER PROJECT NSSP-11 N63-10691 02-21
NASA PROGRAM OF INDUSTRIAL APPLICATIONS N63-21145 21-01	ANALYSIS OF SEVERE WEATHER FACTOR IN AUTOMATIC AIRCRAFT TRAFFIC CONTROL
SPACE TECHNOLOGY TURNED INTO INDUSTRIAL PROFITS - NASA PROGRAM 21-01	NSSP-12 N63-12689 06-21 SFERIC ACTIVITY AND NEATHER CONDITIONS
INDUSTRIAL DERIVATIVES FROM SPACE PROGRAM - NASA N63-21147 21-01	NSSP-19 N63-17912 16-21 SEVERE WEATHER PROJECT - OBSERVATIONS BY RADAR,
NASA SELECTION AND MANAGEMENT OF PROGRAMS N63-21148 21-01	RADIOSONDE, SFERICS, AIRCRAFT AND TIROS SATELLITE - ROUGH RIDER PROJECT NSSP-14 N63-18277 17-21
PRIME CONTRACTORS ROLE IN NATIONAL SPACE PROGRAM - NASA N63-21149 21-01	AIRCRAFT PHOTOGRAPHIC DATA FROM NATIONAL SEVERE STORMS PROJECT - 1962 NSSP-16 N63-19732 19-21

-01 IT -06

-01 -01 5A 27

31

21

T 21

21 21

21

21

REFRACTION CORRECTION OF SHORT NAVIGATIONAL DISTANCES BY MEASURING ATTENUATION

THUNDERSTORM WAKE OF MAY 4, 19	1 - DRY ATR A	ND	RAC-1163	N63-13747	08-12
NSSP-18	N63-23657	24-21	LONG RANGE NAVIGATION - SYSTEMS, SATELLITE NAVIG	VERY LOW FREQUENCY P	ADIO
THIRD SATELLITE OF 61 CYGNUS RSIC-35	N63-19731	19-05	COMPASSES, INERTIAL NAV	IGATION AND GYROSCOPE N63-14803	11-22
ORIGIN OF TEXTITES AS AERODYNAMIC	OF THE MOST AND	(Anh)	LONG RANGE NAVIGATION ST RADIO, INERTIAL, AND SA	TELLITE NAVIGATION SY	STEMS
OF NATURAL SATELLITES NASA-RP-113	N63-23164	24-05	SPACE REFERENCE SYSTEMS	I STATE THE PARTY NAMED IN	DANCE
VIER STOKES EQUATION DISCUSSION OF PLANE SHOCK WAVE COMPUTATION OF SHOCK PROFILES	STRUCTURE		ACIC-TR-98 POSITIONING VORTAC ANTER	N63-14856	11-29
NAVIER-STOKES SOLUTION	N63-14099	09-11	NAVIGATION AND GUIDANCE	N63-15958	13-21
VELOCITY AND PRESSURE DISTRIBUTION IN THREE-DIMENSIONAL VOI STOKES EQUATION			SPACE SCIENCE - NAVIGAT		
	N63-15900	13-11	SPACE SCIENCE - TORQUE I ERROR DETECTION CONCEPTS	S FOR GYROSCOPES AND	JHENT 13-15
DIMENSIONAL VORTEX FLOWS WITH	STRONG CIRCULA	TIONS 14-11	SPACE SCIENCE - SPACE NON-BOARD TRACKING	AVIGATION - GROUND VE	ERSUS
NUMERICAL INTEGRATION OF THE N EQUATIONS FOR SHOCK WAVE STRUC	TURE PROBLEMS N63-23771	24-23	RELIABILITY HANDBOOK FO APOLLO NAVIGATION AND G R-368		ant knowled
LVIGATION SA COLLISION AVOIDANCE NAVIGATION			MULTIFUNCTION SENSORS F		IGATION 14-22
SA PROPORTIONAL NAVIGATION SA SPACE NAVIGATION		VAN-11	RELIABILITY OF TRANSIT	Constitute and a sensitive of	SYSTEM 15-32
CF HOMING DEVICE			LUNAR LANDING MISSION - AIAA PAPER-63-344	NAVIGATION & GUIDANI N63-20492	
CF INERTIAL GUIDANCE CF PLOTTER CF PLOTTING			NAVIGATION OF LUNAR VEH LUNAR PHOTOMETRY LYMAN AND TERRESTRIAL OCCULTA	ICLES - OPTICAL TRACE	LIMB.
CF TRIANGULATION CF X-Y PLOTTER NAVIGATION ERRORS OF THE INERT SATELLITE CARRIER ROCKETS			GCA-TR-62-24-A GEODETIC APPLICATIONS I NAVIGATION		21-22 RAPHY & 24-12
WGL PAPER-39	N63-10035	01-22	GEODESY IN CARTOGRAPHY	AND NAVIGATION	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
BIBLIOGRAPHY ON RADIO DIRECTIO RELATED IONOSPHERIC PROPAGATIO NBS-TN-127		03-08	NAVIGATION AID	N63-23310	24-12
CONTROL, GUIDANCE, AND NAVIGAT	ION OF SPACECI	03-22	AUTOMATIC COUPLING CHAR FOR AIRCRAFT WITHOUT NA WGL PAPER-36		
PROPORTIONAL NAVIGATION GUIDAN ANTENNA POSITIONING EFFECTS ON NACA-RH-A52E27		PONSE	EMERGENCY NAVIGATION PR CORRECTIONS FOR SPACE V THE MOON	EHICLES IN RETURNING	FROM
AUTOMATIC DEAD RECKONING NAVIG			NASA-TN-D-1765 NAVIGATION DISPLAYS AND TRAFFIC CONTROL	N63-14028 COMPUTERS AS AIDS T N63-17438	D AIR
NAVIGATION OF TURBOJET AIRCRAF AND DISPLAY LB-31183			MODULAR SYSTEM INDICATO NAVIGATIONAL AIDS OF FL P-372-R	ORS FOR MONITORING	
SPACECRAFT COMPUTERS FOR CONTR DATA PROCESSING		N. AND	HAVIGATION COMPUTER CF GUIDANCE SYSTEM	H WASON IN TO VIEW	
HELICOPTER PILOT TRAINING, AER NAVIGATION, INSTRUMENTATION, A	ERIAL GUNNERY		NAVIGATION DISPLAYS AND TRAFFIC CONTROL NAVIGATION SYSTEM	NA3-17438	15-22
GUIDANCE ANALYSIS OF EARTH-MOD VEHICLE, BURNOUT ERROR, MIDCOU RAL-TM-63-2			NAVIGATION SYSTEM - APP RADC-TDR-63-166	PROACH AND LANDING CO	NTROL 14-22
NONMILITARY NAVIGATION BY SATE	LLITES - TRAN	LECYC-	NAVY STATISTICAL SURVEY OF A RECORDED BY COUNTING AC		DATA
SATELLITES - METEOROLOGICAL SA	N63-13743	08-22	PRESET LEVELS FOR ELEVE NAEC-ASL-1063	NAVAL AIRCRAFT	23-02
REFRACTION CORRECTION OF SHORT DISTANCES BY MEASURING ANGLE-C RAC-1155		08-12	NEBRASKA DEEP RESISTIVITY SURVEY	Y IN NEBRASKA - SUBSU	
REFRACTION CORRECTION OF SHORT	NAVIGATIONAL		AFCRL-62-959	N63-12828	06-12

held1-lon

NET

NET SA SA CF CF CF

20-16

NEBULA		SUBJECT INDEX		
trial continue				
NEBULA SA CRAB NEBULA SA SOLAR NEBULA COLLAPSE PHASE OF EARLY SOLAR NASA-TN-O-1602		NEOS PROJECT MATERIALS SCIENCE - EMBRITTLEMENT MECHANISM, PARTICLE BEAM EFFECTS & STRAIN RATE EFFECTS IN MATERIALS MANUFACTURING CAL-NH-1559-P-3 N63-18023 16-1		
SOUTHERN SKY SURVEY - NEBULOS FLUXES NASA-TN-D-1719	N63-13104 07-32	REALIZATION OF DESIGN CONFIGURATIONS IN STRUCTURA MATERIALS - NEOS PROJECT CAL-NN-1559-P-2 N63-18026 16-1		
SURFACE PHOTOMETRY OF PLANETA AND INTERSTELLAR MATERIAL - I MICRODENSITOMETER		NERVA PROJECT NUCLEAR PROPULSION PROGRESS - KIWI-B REACTOR, PROPELLANT AND ENGINE DEVELOPMENT, RIFT PROJECT,		
OPTICAL THICKNESS OF PLANETAR TEMPERATURE OF CENTRAL STARS	Y NEBULAE AND N63-16199 13-05	AND NERVA ENGINE N63-17227 15-2 SAFETY OF IN-CORE EXPOSURE OF ROVER/NERVA FUEL TO		
OBSERVATIONAL ASTROPHYSICS FR PHOTOMETRY AT 1300-A	OM ROCKETS - NEBULAR N63-19703 19-05	PULSED IRRADIATION IN TRIGA MARK F REACTOR POWER TRANSIENT USNROL-TR-669 N63-23181 24-2		
NEGATIVE CONDUCTANCE EXPERIMENTAL NEGATIVE SLOT AM DIODE AMPLIFIER FOR SLOTTED A AFCRL-62-583		NERVOUS SYSTEM CF BRAIN CF CEREBRAL CORTEX CF CEREBROSPINAL FLUID CF PSYCHOMOTOR		
MEASUREMENT OF NEGATRON-POSIT LNF-62-66	RON CONVERSION N63-12568 06-15	NEUROCYBERNETICS - RUSSIAN TRANSLATION JPRS-16638 02-1		
MEDDYNIUM ALLOYS OF RARE EARTH METALS - THERMODYNAMICS, METALLURGY, A	VAPOR PRESSURE,	MAN-MACHINE SYSTEM EFFICIENCY - PSYCHOLOGY - NERVOUS SYSTEM - AUTOMATION JPRS-16404 N63-11593 04-1		
OF PRASEODYMIUM, NEODYMIUM, A		EFFICIENCY OF AN OPERATORS WORK IN AUTOMATIC MAN-MACHINE SYSTEM N63-11594 04-1		
LIGHT EMISSION FROM PULSED OF DOPED GALLIUM ARSENIDE AND UN ARSENIDE DIODE LASERS		PSYCHOLOGICAL MANIFESTATIONS OF HUMAN NERVOUS SYSTEM UNDER WORK CONDITIONS N63-11595 04-1		
H-J-63-612R12 COVALENCY EFFECTS IN ABSORPTI		CENTRAL DEPRESSING ACTION OF MEDINAL BARBAMIL, AM THIOPENTAL DURING ACUTE RADIATION SICKNESS IN RAT AND RABBITS N63-11949 04-1		
3-PLUS AND ND 3-PLUS IN LANTH LANTHANUM TRIBROMIDE AROD-2099-12	N63-16852 14-25	NEURON ACTIVITY BY PARAMAGNETIC RESONANCE PIBMRI-1071-62 N63-12700 06-1		
NEODYMIUM GLASS LASER - PUMPI SPECTRAL EMITTANCE AROD-3209-2	NG EFFICIENCY, N63-18148 16-25	RESPONSE OF OTOLITH ORGANS OF CAT TO TILTED POSITION SAM-TDR-62-132 N63-13588 08-1		
LOW TEMPERATURE SPECIFIC HEAT YTTERBIUM AND NEODYMIUM GALLI		EXTRACRANIAL AND INTRACRANIAL CIRCULATION IN ANIMALS BY ELECTROPLETHYSMOGRAPHY NASA-TT-F-161 N63-14431 10-1		
MEDDYMIUM COMPOUND URANIA-NEODYHIA COMPOSITIONS ANL-6631	FOR NUCLEAR FUEL N63-13066 07-18	SHIVERING - RESPONSE TO ANTI-PARKINSON AND PSEUDO PARKINSON DRUGS, ATROPINE AND RESERPINE AAL-TDR-62-17 N63-17092 15-1		
NEON CF RARE GAS VISCOSITY OF GASES BY OSCILLA		ANATOMY OF HYPOTHALAMUS AND FOREBRAIN - RELATION TO CONTROL OF SHIVERING AAL-TDR-62-13 N63-17346 15-1		
BRN-2-P MEASUREMENTS OF LIFETIMES, EX DENSITIES, CROSS SECTIONS, AN	D POLARIZATION RATIOS	ACTIVATION AND SUPPRESSION OF SHIVERING IN CATS B STIMULATION OF HYPOTHALAMUS AND SEPTAL REGION OF FOREBRAIN		
OF THE METASTABLE STATE OF TH UCRL-10477 VISCOSITY OF NITROGEN, HELIUM	N63-10504 01-23	AAL-TDR-62-16 'N63-17348 15-1 CHEMICAL PROTECTION AGAINST HEMATOPOIETIC, GASTROINTESTIMAL AND CENTRAL NERVOUS SYSTEM		
LOW TEMPERATURES AND HIGH PRE		RADIATION DAMAGE N63-18938 18-1 INFLUENCE OF PSYCHIC STATES OF NERVOUS ACTIVITY		
HYDROGEN, HELIUM, DEUTERIUM, REFRIGERANTS IN A NEDN LIQUEF		ON BLOOD COAGULATION RATES N63-18966 18-1 PATHOPHYSIOLOGY OF HIGHER NERVOUS ACTIVITY OF MAN		
ISOTOPE SHIFT AND SATURATION OF TECH TRANSITION OF MEON MA	BEHAVIOR OF 1.5 MU	AND MEDICAL PSYCHOLOGY RESEARCH METHODS JPRS-20543 N63-19802 19-1		
WATER VAPOR ABSORPTION WITH H	N63-15453 12-25	POSTNATAL NERVOUS SYSTEM STUDIES OF DOGS GIVEN X-RAY IRRADIATION DURING EMBRYOGENESIS JPRS-20732 20-1		
MASER MASER	N63-18287 17-08	GAME THEORY APPLIED TO NERVOUS SYSTEM CYBERNETICS		
PHOTOIONIZATION CROSS-SECTION 600 A	N63-19076 18-11	AND PHYSIOLOGY JPRS-20629 N63-20399 20-1		
NEON & ARGON ADDITIVES IN CES. CESIUM ION TRAPPING AFCRL-63-607		NUCLEIC ACID CONTENT OF NERVE CELLS IN VARIOUS FUNCTIONAL STATES FROM CYTOPHOTOMETRIC METHODS JPRS-20668 N63-20663 20-1		

-17 RAL -17

-27 TO -27

-16

-14

AND ATS -16

-15

-16

-16 00--16 N -16 BY -16

-16

AN -14

-16 cs -14

-16

DETROPS SYNTHESIS

REMOTE EFFECT OF SPACE FLIGHT ON AND UNCONDITIONED REFLEXES - SPACE		22-16	REALIZABILITY OF FUNDAMENTAL CUT- ORIENTED GRAPHS FOR ELECTRICAL NE CIRCUITS AND COMMUNICATIONS NETS R-143		
EFFECT OF DEPRIVATION OF SLEEP ON ACTIVITY - SPACE BIOLOGY	HUMAN NERV N63-21523		NETWORK OF COUPLED LINE AND COUPL COMBINING COAXIAL LINES	422524	
ROLE OF TIME FACTOR IN RADIATION CENTRAL NERVOUS SYSTEM - SPACE BI		FR03	PIBHRI-1048-62	N63-14850	11-08
	N63-21526		PROBABILITY THEORY APPLIED TO REL DESIGN - REDUNDANT SYSTEMS AND FA		
NERVOUS CONTROL OF SHIVERING FROM REGION OF BRAIN OF ANIMALS AAL-TDR-62-11	N63-21681	22-16		N63-14851	
HORPHOLOGICAL CHANGES IN PERIPHER	AL NERVE TR	UNKS	ANALYSIS OF MAN-MACHINE SYSTEM - MATRIX-NETWORK, DECISION MAKING,		LYSIS,
JPRS-21053	N63-22099	22-16	AFOSR-4490	N63-14954	11-20
BIOELECTRICAL ACTIVITY OF MUSCULA	R SYSTEM IN		RATIONAL FUNCTION APPROXIMATION O	F POLYNOMIA	LS
NEURO-MUSCULAR DISEASES JPRS-21034	N63-22433	23-16	WITH EQUIRIPPLE ERROR - NETWORKS R-159	N63-15500	12-20
GLYCOGEN CONTENT IN NERVOUS SYSTE	M OF FROGS N63-22554	AFTER 23-16	NETWORK-TYPE HANAGEMENT CONTROL S BIBLIOGRAPHY	一工艺者在是世界中发展	(R) 1 (B) 19
T CO (#7) (* #0)	CONSE. DEDCT		THE STREET STREET STREET, WEARINGS WEARINGS	N63-15733	12-01
APPLICATION OF BOOLEAN ALGEBRAIC FUNCTIONAL STATES AND STABILITY OF AFCRL-62-31		TS	TRANSFER FUNCTION FOR DIRECT CURR AMPLIFIER WITH GENERALIZED EXTERN IDO-16809		
LOW-FREQUENCY VIBRATION PROPERTIE SEAT SYSTEM			CONDITION FOR WYE-DELTA TRANSFORM	N63-15909	WORKS 13-20
ASRMDD-TM-63-31	N63-16827	14-15	CONTROLLED THRESHOLD DEVICES, NET		GIC 14-09
A RC NETWORK A SATELLITE NETWORK			DYNAMIC SWITCHING IN ONE-DIMENSIO	NAL ITERATI	VE
F CIRCUIT			NETWORK - EXISTENCE OF ALGORITHMS		16-09
F LATTICE F LOOP SYNTHESIS OF TRANSFER FUNCTIONS U	SING IMMITT	ANCE	RECTANGULAR TRANSFER MATRIX FOR N		RK 18-09
OPERATORS AFCRL-62-320			CONCEPTS AND THEOREMS IN CAPACITY	SCHAR BUYER	558
METHOD FOR DETERMINING CHARACTERI AND DEGREES OF MISMATCH OF TWO-TE	STIC IMPEDA	NCES	NETWORKS - COMBINATORIAL APPLICAT FLOW THEORY - OPERATIONS RESEARCH	TIONS OF NET	
NETWORKS FTD-TT-62-481/18284	N63-10416	01-09	REDUNDANT EQUIVALENT LINEAR PASSI	VE NETWORKS	444
MAXIMAL FLOWS IN NETWORKS			IMPEDANCE INSTABILITY ANALYSIS AFCRL-63-140	N63-19429	19-09
R-375-PR	N63-10598	02-20	SPACECRAFT TRACKING AND DATA ACQU	ISITION - B	AKER-
MOLECULAR THEORY OF THE VISCOELAS THREE-DIMENSIONAL HYDROGEN-BONDED		02-07	NUNN CAMERA NETWORK, MINITRACK, D AND MANNED SPACE NETWORK	N63-20080	20-08
DERIVATION OF NETWORK FUNCTIONS F	ROM PHASE		THRESHOLD LOGIC AND RELIABILITY O		
FUNCTIONS PIBMRI-1006-62	N63-11634	04-09	AFCRL-63-185	N63-20409	20-09
TESTING METHOD TO DETERMINE REALI	ZABILITY OF		NETWORK PROPERTIES OF SEMICONDUCT		15022
SINGLE-CONTACT NETWORKS R-158	N63-11745	04-09	NYU-TR-400-81	N63-20717	21-09
CYCLING BEHAVIOR IN ONE-DIMENSION	AL, BILATER	AL	MANUFACTURING PROCESS FOR SILICON NETWORKS	THANKAGEMON	TOR
AFCRL-62-728	N63-11953	05-09	ASD-18-7-865/VI/	N63-21008	21-09
NONUNIFORM SECTION OF COAXIAL TRA AS IMPEDANCE MATCHING NETWORK FOR	NSHISSION L		PLOW OF RAREFIED GAS OVER OBSTACL DIMENSIONS ENVISIONED USING NETWO		
FREQUENCIES	N63-12954	07-09	METHOD OF GENERATING POSITIVE REA	L FUNCTIONS	and the same
ELECTRICAL NETWORK FOR ASSOCIATIVE	E INFORMATI	ON	RADC-TDR-63-328	N63-21676	22-09
RETRIEVAL USING TREE PATTERN ACORN-24	N63-13074	07-09	INTRINSIC ATTENUATION OF MICROWAY	E NETWORK I	N
PROBABILISTIC NETWORK STUDY - SYS			TERMS OF SCATTERING COEFFICIENT	N63-21854	22-23
ANTENNA IMPEDANCE MATCHING BY ACT		S- MA	EXACT SOLUTIONS OF DEFINING EQUATIONUMIFORMLY DISTRIBUTED NETWORKS		23-20
FIVE REACTIVE ELEMENT THREE TERMI CIRCUIT PIBMRI-1119-63	NAL PEAKING	ASSMALA CHI ANN ALL SING ASSMALA CHI ASSMALA CHI ASSMA	DATA REDUCTION AND ANALYSIS TECHN SCALE SURFACE NETWORKS - WEATHER NSSP-17	IQUES FOR S FORECASTING N63-22726	MALL-
			DEPOS DELFIRES CONSELATION S		

FOR SMI-

MEUT IMAG ARF

RADI RADI NEUT

FLUX THER EUR-

SLOW

HIGH GRAP GA-2

CRYC NEU1 CRYC NBS-

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PROT CARE REAC NYO-

VINY SYST LAMS

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CROS TO T GEAP

FORT NEUT POQ-WAPE

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MONT NEUT WAPC

NEUT SC IN CHAR

TRANCOMP AND REIC

SPAC GROU CODE LA-2

DENT RADI USNA

PROT

NETWORK SYNTHESIS SENSITIVITY IN ACTIVE NETWORK SYNTHESIS SURI-EE975-6304SR1 N63-16150 13-09	BY DIELECTRIC CRYSTAL - CONSIDERATION OF VAN DER WAALS FORCES AND PERTURBATION POTENTIAL N63-14395 10-23
METWORK SYNTHESIS WITH MULTIWIRE LINES N63-17612 16-08	TIME DEPENDENCY OF VARIATION OF NEUTRAL PARTICLE DENSITY IN MODEL C-STELLARATOR DISCHARGES MATT-161 N03-14998 11-24
CONTROL OF APERTURE FIELDS - SURFACE CURRENT MEASUREMENTS, ANTENNA PATTERN SYNTHESIS, ARTIFICIAL DIELECTRIC MEDIA, AND NETWORK SYNTHESIS AFCRL-62-932 N63-17748 16-08	COMPRESSION OF EARTH MAGNETIC FIELD DUE TO IMPACT OF NEUTRAL PARTICLES FROM THE SUN UPON OUTER MAGNETOSPHERE N63-18165 16-12
SYNTHESIS OF THO TERMINAL CONTACT-DIODE NETWORKS PIBMRT-1144-63 N63-18299 17-09	NEUTRAL-PION PRODUCTION FROM PROTON-PROTON COLLISIONS AT 735 MEV
NETWORK SYNTHESIS TECHNIQUES APPLICABLE TO RC FUNCTIONS NYU-TR-400-76 N63-19165 18-09 REDUNDANT EQUIVALENT LINEAR PASSIVE NETWORKS -	UCRL-10621 N63-19401 19-23 MAGNETOHYDRODYNAMIC SHOCK WAVE STRUCTURE IN PARTIALLY IONIZED HYDROGEN - ELECTRON TEMPERATURE OF NEUTRAL PARTICLES BY SOFT X-RAY TECHNIQUE AVCO-EVERETT RES. REPT153 N63-20060 20-24
IMPEDANCE INSTABILITY ANALYSIS AFCRL-63-140 N63-19429 19-09 DISTRIBUTED CONSTANTS OF MULTIWIRE TRANSMISSION	FAST-ION GAUGE FOR MEASURING MEUTRAL GAS DENSITY NEAR MAGNETICALLY CONFINED PLASMA - SHIELD AND MODERATOR GRIDS MATT-203 N63-22997 23-24
LINES & NETWORK SYNTHESIS PIBMRI-991-62 N63-21243 21-09	NEUTRALIZATION
SYNTHESIS OF UNITY-GAIN COMPLEX-ZERO RESISTANCE- CAPACITANCE NETWORK NRL-5972 N63-21457 22-09	CF CHEMICAL REACTION BEAM REUTRALIZATION TESTS OF ELECTRON BOMBARDMENT ENGINE MODEL IN SIMULATED SPACE ENVIRONMENT ARS PAPER-2663-62 N63-11267 03-27
NEUMANN PROBLEM A FINITE DIFFERENCE METHOD FOR THE NEUMANN AND THE DIRICHLET PROBLEMS NYO-9760 N63-11491 03-20	IONIZATION OF NITROGEN AND DXYGEN MOLECULES BY BEAMS - ELECTRON IMPACT IONIZATION AND CHARGE TRANSFER NEUTRALIZATION N63-13594 08-23
NEUMANN-SERIES SOLUTIONS OF ELLIPSOIDAL WAVE EQUATION	NEUTRALIZATION TESTS ON ELECTRON-BONBAROMENT ION ENGINE
MRC-327 N63-14455 10-20	NASA-TN-D-1733 N63-18655 17-27
NEURISTOR INTEGRATION OF ENERGY STORAGE AND DISCHARGE MECHANISMS IN BULK SILICON AND GERMANIUM FOR APPLICATION TO NEURISTOR LINES	MEUTRING COMPUTATION OF CROSS SECTION OF KAON PRODUCTION REACTION BY HIGH ENERGY NEUTRINOS LNF-62-89 N63-12576 06-23
N63-11952 05-09 NEUROLOGY CF PHYSIOLOGY	NUCLEAR SCIENCE & TECHNOLOGY - BARYON & NEUTRINO DOUBLETS, NUCLEAR & COSMIC RADIATION IN OCEAN, & HALF-LIVES OF CESIUM 137 AND COBALT 60 N63-21179 21-23
NEUROCYBERMETICS - RUSSIAN TRANSLATION JPRS-16638 N63-10985 02-16	EQUIVALENCE OF THE MAJORANA AND THO COMPONENT
BEHAVIORAL AROUSAL AND NEURAL ACTIVATION AS RADIO- SENSITIVE REACTIONS USNROL-TR-624 N63-15518 12-16	THEORIES OF THE NEUTRINO URPA-3 N63-22474 23-23
NEUROLOGICAL MODELS AND INTEGRATIVE PROCESSES N63-15888 13-16	PRODUCTION OF CHARGED VECTOR BOSONS BY NEUTRINDS IN ELECTROMAGNETIC FIELD OF NUCLEUS CALCULATED FOR DIFFERENT BOSON MASSES & NUCLEI
EFFECT OF ELECTRIC STIMULATION OF BRAINS OF UNANESTHETIZED CATS — NEURAL RESPONSE TO SEPTAL AND HYPOTHALAMIC STIMULATION AAL—TOR—62—14 N63—16868 14—16	N63-22995 23-23 NEUTRON SA FAST NEUTRON SA SLOW MEUTRON
BIDELECTROSTIMULATOR FOR CONTROL OF FUNCTIONING OF	SA THERMAL NEUTRON CF ELEMENTARY PARTICLE
INDIVIDUAL NEUROMUSCULAR SYSTEMS AND ORGANS FTD-TT-62-1553/184 N63-18072 16-16	EXPERIMENTAL LIMITS FOR THE ELECTRON-PROTON CHARGE DIFFERENCE AND FOR THE CHARGE OF THE NEUTRON N63-10484 01-23
ELECTROMYOGRAPHIC STUDIES OF PRIMARY MYOPATHIC AND NEUROGENIC MUSCULAR ATROPHY N63-18963 18-16	DIFF - A FORTRAN CODE TO DETERMINE NEUTRON DIFFUSION CONSTANTS FOR COMPOSITE SHIELDING
NEURAL CONTROL OF CILIARY MUSCLE - EYE ACCOMMODATION FOR DISTANT VISION	MATERIALS EUR-106.F N63-10777 02-20
CARI-63-5 N63-19400 18-16	THRESHOLD DETECTORS FOR PENETRATION OF FAST
NEUTRAL PARTICLE LOW ENERGY ELASTIC AND INELASTIC COLLISION OF ELECTRONS AND MOLECULES WITH NEUTRAL PARTICLES AE63-0006 N63-11866 04-23	NEUTRONS IN WATER EUR-107-F MEASUREMENT OF THE SHUTDOWN OF THERMAL POWER
GRAVITATIONAL INSTABILITY AND ONE-COMPONENT PLASMA OSCILLATIONS IN CHARGED GAS - APPLICATION TO	REACTORS BY PULSED NEUTRON SOURCES GEAP-4047 N63-11228 03-23
STELLAR SPECTRA MF-33 N63-12985 07-24	STUDIES OF NEUTRON SCATTERING AND NEUTRON DETECTORS
ATOMIC AND HOLECULAR CHARGE TRANSFER PROCESSES — COLLISIONS WITH NEUTRAL PARTICLES	ANL-6517 N63-11640 04-23 CROSS SECTIONS FOR NEUTRON INTERACTIONS WITH
AROD-3251-1 N63-14075 09-23	OXYGEN AND DEUTERIUM NDL-TR-40 N63-11681 04-23
ELASTIC SCATTERING OF NEUTRAL MASS-POINT PARTICLES	

R

E

PRODUCTION OF SHORT-LIVED INTRIF	NSIC RADIOTRA	CERS	11-34 N63-15154 11-34	28
MMI-1606 MEUTRON INTERACTIONS IN MATTER A	N63-11729	04-17 HIP TO	RHEOLOGICAL BEHAVIOR OF AEROSOL IN WATER - SEDIMENTATION & VISCOSITY STABILIZATION STUDIES N63-15234 11-11	23
IMAGE FORMATION ARF-1164-27	N63-11821	04-17	NEUTRON-INDUCED NUCLEAR FISSION SYMMETRY IN URANIUM-235 AT INDIVIDUAL RESONANCES	ER
RADIATION STABILITY OF ORGANIC PRODUCTION OF POLYPHENYLS	IRRADIATED 1		PNE-114F N63-15381 12-23	
NEUTRON-RICH SPECTRUM OF THE SUS	N63-11828	04-23	MATHEMATICAL ANALYSIS OF NUCLEAR RADIATION, NEUTRON DAMAGE TO TRANSISTORS TR-975, SUP. 1 N63-15513 12-09	MY.
FLUX DISTRIBUTION IN COLLIMATED THERMAL NEUTRON DETECTOR EUR-133.1	N63-11830	04-23	LUMINESCENT DERIVATIVES OF BORAZOLE AND THEIR APPLICATION IN COUNTING THERMAL NEUTRORS	30
SLOWING APPROXIMATIONS IN NEUTRO	ON TRANSPORT	THEORY 05-23	INTEGRAL NEUTRON FLUX, NEUTRON AND GAMMA RADIATION	
HIGH ENERGY NEUTRON-INDUCED CHAP	NGES IN CARBO	N AND	DOSE MEASUREMENTS ON KIMI B-1 REACTORS LA-2658 N63-16124 13-10	
GA-2802 CRYOGENICS - LIQUID PROPELLANTS		05-23	ESTIMATE OF NEUTRON ALBEDO ON MOON SURFACE DUE TO COSMIC RAY BOMBARDMENT N63-16459 14-28	
NEUTRON BOMBARDMENT, THERMONUCLE CRYOPUMPING	EAR FUSION, A	ND	NEUTRON DOSIMETRY OF APSARA USING COBALT, IRON AND	23
NBS-R-213 SCATTERING LAW FOR ROOM TEMPERAT	N63-12669 FURE LIGHT W	06-26 TER	FERROUS AMMONIUM SULFATE AEET/CD/10 N63-16509 14-24	
HW-75526 NEUTRON AND ULTRAVIOLET IRRADIAT	N63-12726 FION ON CATAL	06-23 YTIC	ENERGY DISSIPATION IN TISSUE FOR PROTON RADIATION IN SPACE — COMPARATIVE ANALYSIS OF LET SPECTRA OF FLARE PRODUCED AND FISSION NEUTRON RECOIL PROTONS	FA
ACTIVITY OF MAGNESIUM OXIDE NEUTRON MEASUREMENTS OUTSIDE EAR	N63-13214 RTH ATMOSPHER	07-07 E	NASA-CR-50044 N63-16679 14-24 FISSION NEUTRON ENERGY SPECTRA FRON URANIUM 235,	
BY ATLAS ROCKET AFCRL-63-214	N63-13271	07-28	URANIUM 233 AND PLUTONIUM 239 LAMS-2883 N63-17197 15-15	
PROTON AND NEUTRON ANGULAR DISTR CARBON-13/NITROGEN-14 AND CARBON REACTIONS BETWEEN 3.2 AND 4.1 ME	N-13/CARBON-1 EV	TAGAT	EXPERIMENTAL LIMITS FOR ELECTRON-PROTON CHARGE DIFFERENCE AND CHARGE OF NEUTRON NASA-CR-50041 N63-17225 15-23	
WYO-10252 VINYL PLASTISOLS FOR USE IN NEUT	N63-13321	07-23	INTEGRAL NEUTRON THERMALIZATION - NUCLEAR PHYSICS, ACCELERATORS, AND SCATTERING	23
SYSTEMS AMS-2800	N63-13372	08-17	GA-3542 N63-17257 15-23	
RADIATION EFFECT ON SEMICONDUCTORESULTING FROM NEUTRON AND GAMMA		ERGY 08-23	GENERAL GEOMETRY MONTE CARLO CODE FOR NEUTRON PENETRATION PROBLEM LAMS-2856 M63-17261 15-20	24
ABSORBER BURNUP EXPERIMENT - CHA CROSS SECTION OF REACTOR CONTROL TO TRANSMUTATION B NEUTRON CAPTU	ANGE OF ABSOR L ROD MATERIA URE	PTION LS DUE	COSMIC RAY PRODUCTION OF MUONS AND NEUTRONS IN MASSIVE RADIATION SHIELDS - EFFECTS ON LOW EMERGY GAMMA RAY BACKGROUND RADIATION MEASUREMENTS No.3-17308 15-23	570
GEAP-4017 FORTRAN PROGRAM FOR SOLVING THO-	N63-13735	08-23	TABLES OF ANISOTROPY FACTORS TO DETERMINE, BY ASSOCIATED PARTICLE METHOD, TOTAL NEUTRON YIELDS	- 主教
NEUTRON DIFFUSION PROBLEM - STEA POQ-5 PROGRAM	ADY STATE VER		FROM NUCLEAR REACTIONS UCRL-10752, SUPPL. N63-17619 16-23	43)
WAPD-TM-363 TWO DIMENSIONAL NEUTRON-DIFFUSIO	N63-13933 ON PROGRAM PO	09-20 Q-5	EXISTENCE AND UNIQUENESS THEOREMS FOR NEUTRON TRANSPORT EQUATION N63-17675 16-24	14
MAPD-TM-364 MONTE CARLO FORTRAN PROGRAMS FOR	N63-13934	09-26	RESONANCE ABSORPTION OF NEUTRONS IN THORIUM GA-3125 N63-18020 16-23	tal.
NEUTRON ABSORPTION IN SPHERES DI			NEUTRON THERMALIZATION - TRANSPORT THEORY AND	20
NEUTRON AND GAMMA RAY DISCRIMINA SCINTILLATORS AND PHOTOMULTIPLIS CHARGE EFFECT			GA-363 21RCUNIUM HYDRIDE AND DITEITHERIE NOS-18126 16-23	13
TRANSIENT RADIATION EFFECTS ON E	ELECTRONIC	N 1 2 2 2 X	INSTRUMENT SENSITIVITY AS FUNCTION OF NEUTRON ENERGY - NEUTRON COUNTER LA-2860 M63-18127 16-15	131
AND MEUTRONS REIC-26			PHYSICS OF FAST REACTOR - ENERGY SPECTRUN AND	
SPACE, ENERGY AND TIME DISTRIBUT	TION OF NEUTR	IONS AT	WHAT IN TOUGHT THAT STIDUL SO SERVED WOUNDED	107 -07
		10-23	PHYSICS OF FAST REACTOR - NEUTRON SPECTRUM BY USING RESONANCE EFFECT N63-18199 16-23	
CODE NHM	N63-14568	10-23		
CODE NHM LA-2390, SUPPL. DENTAL LESIONS IN RAYS DUE TO X- RADIATION EFFECT ON TEETH USNADL-TR-620	RAYS & NEUTF	Security	NUCLEAR CHEMISTRY AND GEOCHEMISTRY RED - NEUTRON CHARGE, URANIUM-238 FISSION YIELD, RADIUM-226 IN MANGANESE TUFA, AND FISSION PRODUCED ZIRCONIUM N63-18386 17-07	77.5

MEU

MEU

SEMICONDUCTORS - SILICON SOLAR CELLS & RADIATION EFFECT	EUR-133-1 N63-11830 04-23
NASA-CR-50422 N63-18856 18-09	ARGONNE DUAL NEUTRON DIFFRACTOMETERS USING SINGLE
NEUTRON DIFFRACTION PATTERN OF ALPHA PLUTONIUM AT 23-DEG K	ANL-6537
LA-2912 N63-19218 18-23	COMPUTER CODE FOR REDUCTION ON NEUTRON CROSS
RADIATION EFFECTS IN COAXIAL CABLES DUE TO GAMMA- NEUTRON RADIATION IMPULSES N63-20234 20-09	SECTION LAMS-2801 N63-12992 07-20
STANDARDIZATION OF HURST RADSAN NEUTRON DETECTOR USNRDL-TR-598 N63-20282 20-23	NUCLEAR AND GENERAL PHYSICS & MASS SPECTROSCOPY - NEUTRON CROSS SECTION, PROTON SCATTERING, AND MESON-NUCLEON INTERACTION
MULTIGROUP NEUTRON-DIFFUSION EQUATIONS IN TWO DIMENSIONS & GROUP SCATTERING FOR IBM-7090 FORTRAN	ANL-6666 N63-13652 08-23
II SYSTEM SOLUTION N63-20942 21-20	NEUTRON CROSS SECTIONS FOR BERYLLIUM UNC-5014, VOL. B N63-15544 12-25
MONTE CARLO CALCULATION OF NEUTRON THERMALIZATION IN LIQUID HYDROGEN OF NUCLEAR ROCKET PROPELLANT TANK	TABLES OF CROSS SECTIONS OF NUCLEAR REACTIONS WITH NEUTRONS IN 14 TO 15-MEV ENERGY RANGE EUR-122.E N63-17772 16-23
LA-2909 N63-21656 22-26	GROUP CONSTANTS AND COMPUTED NEUTRON CROSS SECTION
CODE FOR COMPUTATION OF THERMAL NEUTRON SPECTRA AND MULTIGROUP CONSTANTS	FOR REACTOR MATERIALS LAMS-2941 N63-22472 23-23
GA-4132 N63-21704 22-23	NEUTRON DIFFRACTOHETER
CORRELATION OF CRITICAL CONDITIONS OF HOMOGENEOUS BARE REACTORS CONTAINING RESONANCE ABSORBER RM-2940-PR N63-22304 23-27	ARGONNE DUAL NEUTRON DIFFRACTOMETERS USING SINGLE PRIMARY BEAM ANL-6537 N63-12209 05-15
IRRADIATION FACILITIES - STEADY STATE OR PULSED, GAMMA RAY, NEUTRON, & PARTICLE ACCELERATORS REIC-31, PT. II	NEUTRON FLUX NEUTRON ACTIVATION OF URANIUM-235 BY INCREASING NEUTRON FLUX N63-12439 06-07
NEUTRON AND GAMMA RADIATION SHIELDING CALCULATIONS NW-78274 23-23	COMPUTER CODE FOR REDUCTION ON NEUTRON CROSS SECTION
NEUTRON ENERGY SPECTRA FROM NUCLEI EXCITED BY MU-	LAMS-2801 N63-12992 07-20
MESON CAPTURE UCRL-10516 N63-22831 23-23	NEUTRON FLUX ON SURFACE OF GRAPHITE-LINED CAVITY - CADMIUM RATIO AND ALBEDO NYO-9657 N63-13561 08-23
RECOIL EFFECTS FROM COBALT-59 /GAMMA, NEUTRON/	THE STATE OF THE PARTY AND THE
COBALT-58 REACTION AEET-DC-14 N63-23147 24-07	IN-CORE POWER MONITORING OF NUCLEAR REACTORS GEAP-3914 N63-14206 09-15
SOLID STATE PHYSICS - GROWTH OF SINGLE CRYSTALS & CRYSTAL FILMS, MAGNETIZATION & LATTICE ELASTIC PROPERTIES, NEUTRON DIFFRACTION, & INTERMETALLICS NOLTR-63-151 N63-23590 24-25	EXPERIMENTAL DETERMINATION OF CORRECTIONS TO NEUTRON FLUX OF GOLD FOIL IN WATER ORNL-3407 N63-14567 10-23
LOSS SERVINGES AND THE PROOF BY HE PROPERTY AND LOSS OF	DOSINETRY OF NEUTRON FLUX FROM NEUTRON GENERATOR
DOSIMETRY BADGE ORIENTATION EXPERIMENT N63-10290 01-15	SAM-TDR-63-18 N63-15224 11-23 REACTOR POWER SPECTRUM ANALYZER FOR USE WITH
GAMMA RADIATION CURVES FOR STEEL, ALUMINUM AND	RANDOM NEUTRON FLUX LEVEL SIGNALS HN-74783 N63-15559 12-09
URANTUM EUR-103.F N63-10775 02-23	INTEGRAL NEUTRON FLUX, NEUTRON AND GAMMA RADIATION
AUTOMATED NEUTRON ACTIVATION AND VSES - SAMPLING -	DOSE MEASUREMENTS ON KIWI B-1 REACTORS LA-2858 N63-16124 13-10
CONTAMINANTS TEES-2671-2 N63-12076 05-20	INTEGRAL NEUTRON FLUXES - GAMMA AND NEUTRON
NEUTRON ACTIVATION OF URANIUM-235 BY INCREASING	RADIATION DOSES ON KINI B-4A REACTOR LA-2885 N63-18112 16-23
NEUTRON FLUX N63-12439 06-07	NEUTRON FLUX STRUCTURE IN GRAPHITE LATTICES -
COMPUTER PROGRAM FOR REDUCTION OF NEUTRON ACTIVATION FOIL DATA NASA-TH-X-50016 N63-16439 14-20	URANIUM METAL & OXIDE FUEL ELEMENTS - BUCKLING AND FLUX DISTRIBUTION AEEW-R-235, PT. 111 N63-20058 20-25
NEUTRON ACTIVATION ANALYSIS OF REACTOR MATERIALS -	NEUTRON FLUX MEASUREMENTS OF KUKLA PROMPT CRITICAL
CHEMICAL ANALYSIS EUR-306.1 N63-20689 20-23	ASSEMBLY - RADIATION MEASUREMENT N63-20814 21-23
NEUTRON ACTIVATION ANALYSIS BY IRRADIATION WITH	NEUTRON GENERATOR
NUCLEAR PARTICLES N63-21412 22-23	DOSIMETRY OF NEUTRON FLUX FROM NEUTRON GENERATOR SAM-TOR-63-18 N63-15224 11-23
CERENKOV RESPONSE OF LUCITE AND QUARTZ TO GAMMA	MEUTRON IRRADIATION
AND CERENKOV FAST NEUTRON RADIATION UCRL-7032 N63-10115 01-23	RADIOISOTOPIC HEAT SOURCES HN-76323 N63-14308 10-23
HIGH FIELD MAGNET FACILITY - NEUTRON BEAM STUDIES - OCEAN RESEARCH FACILITY - MATERIALS RESEARCH N63-10738 02-01	SURVEY OF 21 REACTOR VESSELS IN LIGHT OF ANTICIPATED EFFECTS OF NEUTRON IRRADIATION ON BRITTLE-RUPTURE PROPERTIES OF STRUCTURAL MATERIALS TID-17682 N63-14630 10-33
FLUX DISTRIBUTION IN COLLIMATED BEAM BY MEANS OF THERMAL NEUTRON DETECTOR	NEUTRON TISSUE DOSE AT LONG RANGE FROM ELEVATED.

-23 LE -15

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-07

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-09 ION -10

-23

-25 CAL -23

R -23

-23

ALS -33

UNSHIELDED. FISSION REACTOR	W43-14025	Total	GA-3409 M63-14189 09-23
NEUTRON IRRADIATION AND COLD WOR		END IT	THERMAL NEUTRON SCATTERING LAW AND HEAT EFFECTS BNL-770/T-288/ N63-14951 11-23
ZIRCALOY-2 CORROSION AND HYDROGI HN-76636	N PICKUP N63-18267	17-18	NEUTRON THERMALIZATION IN SOLIDS - NEUTRON SCATTER BY ATOMS WHOSE MOTIONS ARE RESTRICTED BY CRYSTAL
DEPTH-DOSE RATE OF NEUTRON IRRAI BODY - MATHEMATICAL MODELS	155 80		BONDS - EMERGY TRANSFER APPROXIMATIONS LA-2634 M63-15219 11-23
SOLAR ORIGIN OF ATMOSPHERIC XEND		17-16	ANISOTROPIC SCATTERING IN NEUTRON TRANSPORT THEORY EQUATION - APPROXIMATION ACCURACY LAMS-2873 11-20
TRANSIENT PHOTOCONDUCTIVITY OF		13/30	LAMS-2873 N63-15220 11-20 INTEGRAL NEUTRON THERMALIZATION - NUCLEAR PHYSICS,
POLYISOBUTYLENE EXPOSED TO PULSI IRRADIATION AND GAMMA RADIATION			ACCELERATORS, AND SCATTERING No3-17257 15-23
COLD WORK AND NEUTRON IRRADIATIO	- FARE WALLES	THE AMERICAN TO SERVICE STATE OF THE PERSON SERVICE STATE	APPLICATION OF DEBYE HODEL TO SCATTERING OF
TENSILITY, PLASTICITY, AND FRACT	TURE MECHANIS	MS DF	CRYSTALS 10 CHARLES 10 ATT MAN M63-17617 16-25
the 14433	eredek an em	18-18	ANGULAR DISTRIBUTION OF SCATTERED NEUTRONS AND PRODUCTS OF NUCLEAR REACTIONS
NEUTRON-GAMMA RATID DEPENDENCE I RADIATION EFFECTS IN ELECTRONIC	PARTS	20-09	BNL-400, VOL. I N63-17773 16-23 NUCLEAR AND THEORETICAL PHYSICS, NEUTRON IMPLASTIC
YIELDING BEHAVIOR OF NEUTRON IN	MAR BEARS	EL 22-18	SCATTERING IN LIQUIDS, SQLIDS AND ELECTRONIC DEVICES AECL-1778 N63-20280 20-23
SAFETY OF IN-CORE EXPOSURE OF RE		1704	ONE-PHONON RESONANCES IN INCLASTIC SCATTERING OF
PULSED IRRADIATION IN TRIGA MARI POWER TRANSIENT	F REACTOR	táfhi Al	NEUTRONS BY ANHARMONIC CRYSTALS
USARDL-IR-669	N63-23181	24-27 NI	EUTRON SOURCE
UTRON PHYSICS ANALYTICAL SOLUTION OF ENERGY DI TRANSPORT PROBLEM FOR PLANE GEDI		RON	THRESHOLD DETECTORS FOR PENETRATION OF FAST NEUTRONS IN MATER EUR-107.F N63-10778 02-15
AEC-TR-5204 CAN	N63-15522	12-20	MEASUREMENT OF THE SHUTDOWN OF THERMAL POWER
NEUTRON RETARDATION THEORY - PHY MATHEMATICAL ASPECTS - BOLTZMANI DEDUCTIONS	EQUATION	FE TROM	REACTORS BY PULSED NEUTRON SOURCES GEAP-4047 N63-11228 03-23
DEDUCTIONS OF TAUDANS STRATEGIST EUR-342-1	N63-19284	18-23	YIELD, SPECTRAL EMISSION, AND AMGULAR DISTRIBUTION. MEASUREMENTS OF PRIMARY AND MODERATED NEUTRON
NEUTRON TRANSPORT EQUATION SOLUT	10N N63-19969	19-23	SOURCES USARDL-TR-587 3 HORMAN - 11236 N63-11236 03-24
SPECTROMETRY, REFLECTION, SCATTI STRUCTURE OF NEUTRON - SLOW NEUT AEC-TR-5734		21-23	NEUTRONS IN SPACE - FLUX GENERATION AND SOURCES NASA-TN-D-1696 N63-13103 07-28
COMPUTER PROGRAM FOR SOLUTION OF DIFFUSION IN THREE DIMENSIONS BY	ONE-GROUP N		ATOMIC EMERGY RED - ADMESIVES, RADIOELEMENTS, RADIOISOTOPE SEPARATION, ALPMA & MEUTRON SOURCES, REACTOR FUELS & MATERIALS, CHEMICAL AMALYSIS
METHOD. CARP-1159	N63-21377	22-23	MLH-1145 1233311483012403 [N63-1555812-17
UTRON SCATTERING		/BEY	PULSED NEUTRON SOURCE FOR REACTOR MEASUREMENTS N63-22252 23-23
F INCOHERENT SCATTERING QUASI-ELASTIC SCATTERING BY ROOM	TEMPERATURE	LIGHT	FAST NEUTRON SOURCE FOR RADIOTHERAPY
HN-75147	N63-10360	01-23	THE CARE LEST - COM S - 10 HO3-22231 - 23-10
NUCLEAR PHYSICS - NUCLEAR REACT! MAGNETIC RESONANCE, NEUTRON SCA DIFFRACTION, RADIATION DAMAGE -	TERING AND SYMPOSIUM, 1	SCOPY. 962	EUTAON SPECTROMETRY THERMIDOR - A FORTRAN CODE TO EVALUATE THE THERMAL NEUTRON SPECTRUM IN AN ORGEL TYPE FUEL ELEMENT EUR-105.E N63-10776 D2-20
DF - GRIDATION RESISTANCE AND PA	N63-10767	02-23	TYPES OF SPARK COUNTERS APPLICABLE TO NEUTRON
AEROTHERMOELASTIC PROBLEMS IN VI FLUTTER, FUSELAGE, AND STATIC AN	ROELASTICITY N63-11062	03-34	SPECTROMETRY NO-10261 14-15
STUDIES OF NEUTRON SCATTERING AND DETECTORS	ID NEUTRON	H CEREL	FABRICATION OF SEMICONDUCTOR DEVICES BY NEUTRON TRANSHUTATION DOPING
ANL-6517 183 MAINTER PO SHITE	N63-11640	04-23	RADIATION PROGRAM SUMMARIES - DOSINETRY, HALOGEN
NEUTRON CROSS SECTIONS AND RELATIONSTANTS - ABSTRACTS - RUSSIAN BNL-768/N-7/	TRANSLATIONS	-DEV AS	COMPOUND, POLYMERS, MONOMERS, GAMMA MADIATION, AND NEUTRON TRANSHUTATION. No.3-18298 17-07
SOLUTION OF NEUTRON TRANSPORT E	UATION IN HE	AVY N	AT LOS DE FAILURE
GAS IN PLANE GEOMETRY IN CASE DI MEDIUM AND CONSTANT TOTAL CROSS A-8	SECTION	07-23	WHITE SANDS HISSILE RANGE CLIMATOGRAPHY SELWS-H-16
USE OF MECHANICAL CHOPPER AND PI	WEED ! THEAD	101 (1	METEOROLOGICAL DAYA FOR LAUNCHING OF AEROBEE NB 3.130 NRL-77 ROCKET IN NEW MEXICO - BALLISTICS
ACCELERATOR TO STUDY, BY VELOCITY NEUTRON INCLASTIC SCATTERING		-920	ERDA-39 218172 2010A-RAN 18121N-M62-18157A3-16T21

JOJI OM IT THEIR ALLIC OX IT AND A ALLIC OX IT A

METEDROLOGICAL DATA GATHERED FOR AEROBEE AC 3-149	THE LAUNCH!	ING OF	DMIC-HENO-162 SULVASE NOT	N63-12296	05-18
ERDA-30	N63-18279	17-21	COMPATIBILITY OF TYPE 302-B STATE	. AND WITH SI	
METEOROLOGICAL DATA GATHERED FOR AEROBEE AC 3.371	N43-18280		LA-2828	N63-12993	07-18
METEOROLOGICAL DATA GATHERED FOR	463-16560	17-21 ING OF	ATMOSPHERIC CONDITION EFFECTS OF CONTROLLED ENVIRONMENTS OF NITRO		ACUUH
AEROBEE NC 3.134 ERDA-35	W/2 10201	17-21	CHAMBER NRL-5880	N63-13338	08-18
METEOROLOGICAL DATA GATHERED FOR NIKE-APACHE ROCKET, WHITE SANDS, ERDA-36	THE LAUNCHI	ING DF	STRESS, CORROSION, AND CRACKING ALLOYS - TITANIUM ALLOY, NICKEL		08-18
METEOROLOGICAL DATA GATHERED FOR	THE LAUNCHI	ING OF	JOINING OF REFRACTORY METALS, TO	UNGSTEN USING	YJQ4
AEROBEE AC 3.510 ERDA-40	N63-18336	17-21	NICKEL OR PALLADIUM ACTIVATORS WAL-TR-460-54/1-2	N63-13980	09-17
METEOROLOGICAL DATA FOR LAUNCHIM AC 3.372 ROCKET IN NEW MEXICO ERDA-34	G OF AEROBEE	18-21	LIQUID PHASE AND ACTIVATED SINTI INFLUENCE OF ALLOYS - CARRIER PA		
ROCKET MEASUREMENT OF MAGNETIC F	IELDS ABOVE N63-19686	NEW 19-12	EFFECT OF ADDITIVE ON ELECTRODES AND ELECTRODISSOLUTION OF NICKEL ASD-TOR-63-212		ADMIUN 11-07
METEOROLOGICAL DATA REPORT FOR AL LAUNCHING - BALLISTIC TRAJECTORY ERDA-52		23-21	PLASTIC DEFORMATION THEORY FOR C MATERIALS FOR TUNGSTEN FIBER ROC COPPER-NICKEL, SILICON, ALUMINUM	CKET NOZZLE A	MATRIX,
NEWTON SUPER-POTENTIALS IN NEWTONIAN GR. POTENTIALS AND SUPER-POTENTIALS (ELLIPSOIDS	AVITATION - OF HOMOGENEO	IUS "	HIGH TEMPERATURE CORROSION STUDI		12-18 AND
EFINS-62-54-55-56	N63-11225	03-23	BH-RI-6231	N63-15512	12-18
MATCHING CONDITIONS FOR THE MODII PRANDIL-MEYER EXPANSION AND PRESS FOR HYPERSONIC FLON OVER BLUNT BE	SURE ESTIMAT		HYDROGEN AND OXYGEN EVOLUTION — ADSORBED SUBSTANCES ON PLATINUM ELECTRODES		ACCATOMA ACCAT TABLE
RM-205 ON LESS SET SO MERCYLUMS THE	N63-11314	03-03	ASD-TOR-62-1067	N63-15808	13-07
NEWTONIAN DYNAMIC DAMPING COEFFIC CONES AT ANGLE OF ATTACK	CIENTS FOR S N63-19505	19-20	IRON, COBALT, AND NICKEL AS META ZIRCONIUM DIBORIDE - HARDNESS, C MECHANICAL SHOCK RESISTANCE EVAL	DXIDATION RAT LUATIONS	TE, AND
NEWTON-RAPHSON METHOD THEORY OF OPTIMIZATION FOR CONTRI LAUNCH VEHICLES - NEWTON-RAPHSON METHOD	OL SYSTEMS O	F.	BM-RI-6262 SUBSTRUCTURE OF PLASTICALLY DEFO UCAL-10778	N63-18901 ORMED NICKEL N63-19918	18-18
OPTIMIZATION OF CONTROL SYSTEMS IN MINIMIZATION BY NEWTON-RAPHSON NO	ETHOD	NT 12-20	INFLUENCE OF ENVIRONMENT & HIGH CRACK PROPAGATION IN NICKEL & NI		
NEXUS LAUNCH VEHICLE NEXUS LAUNCH VEHICLE - OPERATIONS CONCEPT AND COST CONSIDERATIONS			APPLICATION OF ELECTROLESS NICKE OF MICROELECTRONIC COMPONENTS RADC-RAS-TM-63-4	EL TO FABRICA	ATION 21-09
AIAA PAPER-63-277	N63-21736	22-31	YIELDING BEHAVIOR OF NEUTRON IR	RADIATED NICK	KEL
ALUMINUM OXIDE FIBERS AS REINFORCE		RON	HN-70178	N63-21467	22-18
MICHROME ALLOYS AND STAINLESS STE	N63-16191	13-17	DETERMINATION OF COBALT AND NICO COMBINED ION EXCHANGE X-RAY SPEC BM-RI-6308		
DISPERSION STRENGTHENED NICHROME PHYSICAL PROPERTIES	THORIA ALLO N63-19466	19-18	CHEMICAL KINETICS OF MICKEL-FLUC USING RADIDACTIVE TRACER ISOTOPE	ORINE REACTIO	ATUR THE
MICKEL ELECTRON TUBE MATERIALS AND THER			ANL-6684	N63-22988	23-07
PROCESSES AFCRL-62-905	N63-10145	01-09	MICKEL ANISOTROPY CONSTANT DEPER TEMPERATURE AND SATURATION MAGNE JPRS-21676		24-18
TWO-PHASE TUNGSTEN-NICKEL-IRON CO ASRL-TR-94-4	OMPOSITES N63-10188	01-33	NICKEL ALLOY	turn desire	000
SOLAR POWER SYSTEM FOR THE ARIEL ARS PAPER-2498-62	M63-10252	01-06	CF PERMALLOY STRESS-RUPTURE TESTING OF CAST	NICKEL ALLOYS	SAT
NICKEL-CADMIUM BATTERIES FOR THE ASTRONOMICAL OBSERVATORY /OAG/	ORBITING	THEOD NEWS	FTD-TT-62-720/16264	N63-10352	01-33
ARS PAPER-2508-62	M63-10257	01-06	OF AN IRON-, NICKEL-, AND COBALT	T-BASE ALLOY	TIGUE
NICKEL-CADMIUM BATTERIES	N63-11342	03-17	NASA-TN-D-1458	N63-10898	02-33
STAINLESS STEELS WITH REDUCED NIC PROSPECTS OF ELECTROSLAG REMELTIN JPRS-17016	IG	AND 04-18	AUSTENITE PRODUCED BY REVERSE HI TRANSFORMATION STUDIED BY ELECTI FOR IRON-NICKEL ALLOY DSR-7618	RON MICROSCOP	1000
LON-CARBON HIGH-NICKEL MAR-AGING	STEELS	ADSY.	DSR-7618 SELECTION VA VOLUM	N63-11758	04-18

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JOINING OF NICKEL-BASE ALLOYS N63-12583 06-18	MAGNETIC PROPERTIES OF CUPRON WIRE AT LOW TEMPERATURE N63-19919 19-18
THERMODYNAMICS OF MICKEL-GOLD ALLOY IER REPR110-62 N63-13056 07-23	INFLUENCE OF ENVIRONMENT & HIGH TEMPERATURE ON CRACK PROPAGATION IN MICKEL & MICKEL BASED ALLOYS
PHASE TRANSFORMATION IN CALCINATION OF MITRATES OF ALUMINUM, STAINLESS STEEL, AND NICKEL-CHRONIUM	NICKEL, COBALT BASE ALLOYS - RENE 41, INCONEL
ALLOYS 100-14401 N63-13200 07-23	702 - NECHANICAL PROPERTIES ERSD-13-7 N63-20123 20-18
EXPLOSIVE SYSTEM FOR ACCELERATING A METAL PELLET OF NICKEL-IRON AFCRL-63-246 N63-13523 OP-26	FRACTURE MECHANICS OF EUTECTIC ALLOYS - ELASTIC STRENGTH OF ALUMINUM, CHROMIUM, COPPER, & NICKEL ALLOYS
REINFORCEMENT OF NICKEL-CHRONIUM ALLOYS WITH ALUMINA DISKS N63-13535 08-18	REINFORCEMENT OF NICKEL-CHROMIUM ALLOYS WITH
PERSHING HOTOR CASE CLOSURE FROM 18 PCT. NICKEL- COBALT-MOLYDDENUM MAR-AGING STEEL - AIRFRAME	SAPPHIRE WHISKERS N63-20684 20-18 UNIDIRECTIONALLY SOLIDIFIED EUTECTIC ALLOYS OF
MATERIALS V-G-RD-62-156 N63-13654 08-34	COPPER, CHROMIUM, ALUMINUM & NICKEL - TENSILE STRENGTH AND ELASTIC MODULUS B-910088-3 M63-21181 21-18
AGING RESPONSE OF NICKEL-COBALY-MOLYBDENUM STEEL WAL-TR-320.1/11 N63-14225 09-18	MECHANICAL AND PHYSICAL PROPERTIES OF FUSION WELDED INVAR 36-IROM-NICKEL ALLOY
TENSILE AND STRESS-RUPTURE PROPERTIES OF A TANTALUM HODIFIED NICKEL-BASE ALLOY MASA-TH-0-1591 N63-14402 10-18	MPTR-2-251-1 N63-21234 21-19 TANTALUM ALLOY ADDITION TO NICKEL-BASE ALLOYS -
TENSILE STRENGTH AND ELONGATION PROPERTIES OF STEEL, NICKEL, ALUMINUM AND TITANIUM ALLDYS IN	INCREASE OF STREMGTH AND MORKABILITY PROPERTIES MASA-RP-26 N63-21329 21-18
LIQUID-MITROGEN AND FLUORINE ENVIRONMENTS NASA-TH-D-1706 N63-14405 10-18	EXTENSION OF TWO ELECTRONIC CONFIGURATIONS OF IRON ATOMS IN FACE-CENTERED CUBIC LATTICE TO IRON-
OXIDATION REINFORCEMENT OF IRON-NICKEL-CHROMIUM ALLOYS WITH ALUMINA WHISKERS N63-15191 11-18	MICKEL ALLOY - INVAR EFFECT N63-21810 22-23
OXIDATION OF HEAT RESISTANT IRON- AND NICKEL-BASE ALLOYS IN HIGH TEMPERATURE NUCLEAR REACTOR ENVIRONMENT	STRAIN HARDENING AND AUSFORMING IN AN IRON-NICKEL ALLOY - DUCTILITY, YIELD AND TENSILE STRENGTH ARL-63-124 M63-22496 23-18
He-76952 N63-19365 12-18 HECHANICAL PROPERTIES OF NICKEL AND COBALT BASE	NICKEL AND COBALT BASE ALLOYS - WELDING, HIGH STRENGTH-HIGH TEMPERATURE ALLOYS, & DIFFUSION BONDING N63-22644 23-18
ALLOYS ESRD-13-10 N63-19463 12-18	MECHANICAL PROPERTIES OF NICKEL AND COBALT BASE
INFLUENCE OF MICROSTRUCTURAL INCLUSIONS ON WEAR AND FRICTION OF NICKEL AND IRON ALLOYS IN VACUUM	ALLOYS ESRO 13-13 NO. 10 NO. 100-100 NO. 23-18
NASA-TN-0-1708 N63-15769 13-17	IMPROVED TENSILE PROPERTIES OF DISPERSION— STRENGTHENED NICKEL ALLOYS PREPARED BY THERMAL DECOMPOSITION OF THORIUM NITRATE
ORDERING IN MICKEL-MANGANESE PHASE TRANSFORMATION UCRL-7210 N63-16564. 14-18	NICKEL CADRIUM BATTERY
STAINLESS STEEL NOTCH STRENGTH AT CRYOGENIC TEMPERATURES - LOAD AND STRESS CONCENTRATION FACTOR - WICKEL ALLOY	NICKEL CADMIUM BATTERY NICKEL-CADMIUM BATTERIES FOR THE ORBITING ASTRONOMICAL OBSERVATORY /OAO/ ARS PAPER-2508-62 N63-10257 01-06
ASD-TOR-62-930 N63-16714 14-18	NICKEL-CADMIUM BATTERIES N63-11342 03-17
INTERMETALLICS - GRAIN BOUNDARY HARDENING IN NICKEL-GALLIUM ALLOYS ASD-FDR-63-309, PT. I N63-16925 14-18	EVALUATION OF BATTERIES FOR SATELLITE APPLICATION, NICKEL-CADMIUM CELLS N63-14150 09-06
NICKEL BASE ALLOY FOR HIGH TEMPERATURE APPLICATION ASD-TOR-62-869 N63-17000 15-18	SEALED NICKEL-CADMIUM BATTERIES - TESTING INSULATION MATERIAL IN ELECTROLYTE N63-14151 09-06
HIGH TEMPERATURE NICKEL ALLOY CONTAINING THORIUM DAIDE - OXIDATION RESISTANCE AND FABRICATION	HIGH CAPACITY SEALED MICKEL-CADMIUM BATTERIES
STUDIES NASA-TN-0-1944 N63-18133 16-18	CONTROLLED CHARGING CYCLE USING ZENER DIODE N63-14152 09-06
OXYGEN INDUCED GRAIN BOUNDARY AND SURFACE MARDENING IN NICKEL-ALUMINUM INTERMETALLIC COMPOUNDS - PEST REACTIONS N43-18809 18-18	REVIEW OF LEAD ACID, NICKEL-CADMIUM, AMD ZINC- SILVER DXIDE SECONDARY BATTERIES - OPERATION, MAINTENANCE AND DESIGN N63-14155 D9-06
MATERIAL PROPERTY HANDBOOK - MAGNESIUM, NICKEL AND TETANIUM ALLOYS FOR STRUCTURAL USE IN ATRICKAFT M63-18835 18-18	MICKEL CADMIUM BATTERIES - RESISTANCE, IMPEDANCE, CAPACITANCE AND PHASE SHIFT ASD-TOR-63-191 M63-16742 14-06
NECKEL-CHRONTUM-ALUMINUM ALLOY DEVELOPMENT FOR HIGH TEMPERATURE TUBING - TENSILITY TESTS -	NICKEL-CADMIUM BATTERY IMPROVEMENT BY CYCLE-LIFE
VELDING AND BRAZING NASA-CR-90758 NASA-CR-90758 NASA-CR-90758	NASA-CR-51596 ANDRIA MINEL ENTINE N63-22585 23-06
ELECTRON TUBE MATERIALS & THERNIONIC EMISSION PROCESSES - NEGRE ALLOY CATHODES & THIN FILM	LIFE CYCLE TESTING AND FAILURE ANALYSIS OF MICKEL CADMIUM BATTERIES NASA-CR-51597 N63-23037 24-18
MARIUM-NICKEL EMITTERS AFCAL-63-194 H63-19757 19-09	VISITELLING STREET WAT CARLEST SAIL AT THE TENT AT MIGHT TO DARK SCHIPTED CONTENESSURE AFFLICATIONS

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ASD-TOR-62-375 SPIN WAVES AND MUCLEAR MAGNETIC RESONANCE ENHANCEMENT IN NICKEL FLUORIDE DOMAIN WALLS M63-14372 10-23 ENERGY CONVERSION OF SEMICONDUCTOR ELECTRODES FOR FUEL CELL APPLICATIONS - LITHIATED NICKEL OXIDE, ZINC OXIDE, ANTHRACENE, & PHENANTHRENE DATA ASD-TOR-62-89 MAGNETIC PHENANTHRENE DATA ASD-TOR-62-89 MAGNETIC RESISTIVITY & SEEBECK COEFFICIENT OF COPPER, NICKEL, & BISMUTH SULFIDES, CUPROUS TELLURIDE & LEAD TELLURIDE MIXTURES SRI-21 M63-16835 14-16 PHYSICAL AND PREPARATIVE PROPERTIES OF TRANSITION METAL CHELATES - MOLVEDRUM, TUNGSTEN, AND NICKEL COMPOUNDS ARL-63-1600 M63-22397 23-07 MICKEL PLATING ELECTROLESS NICKEL PLATING - CORROSION RESISTANCE AND THICKNESS DETERMINATIONS M63-12367 06-17 GOLD, COPPER AND NICKEL PLATING OF INTERFACE ELECTRIC CONTACTS ON MINIATURE PRINTED CIRCUITS PP-T-9672-1 M63-18087 16-17 EMBRITTLEMENT RELIEF TREATMENT FOR ELECTROLESS NICKEL PLATED STEEL AND TOOL STEEL FOM-3013 M63-21010 21-16 MICKEL PLATED STEEL AND TOOL STEEL AFTER NICKEL PLATED STEEL AND TOOL STEEL FOM-3013 M63-21010 21-16 MICKEL-CADMIUM DIFFUSION PLATING - EFFECT OF DIFFUSION TIME INCREASE & STRESS RELIEF N63-21871 22-16 MICKEL SULFATE HEAT CAPACITY OF HYDRATED NICKEL SULFATE BETWEEN 1 AND 20-DEG K & ELECTRON ENERGY OF NICKEL ION N63-23422 24-1: NICKEL SULFATE HEAT CAPACITY OF HYDRATED NICKEL SULFATE BETWEEN 1 AND 20-DEG K & ELECTRON ENERGY OF NICKEL ION N63-23422 24-1: NICKEL SULFATE HEAT CAPACITY OF HYDRATED NICKEL SULFATE BETWEEN 1 AND 20-DEG K & ELECTRON ENERGY OF NICKEL ION N63-19685 19-1: NIGHT LABORATORY SPECTRA OF THE ULTRAVIOLET OXYGEN NIGHT AIRGUM ATTION COEFFICIENT OF THE NIGHTTIME NASA-CR-50148 N63-19685 19-1: NIGHT F LAYER RECOMBINATION COEFFICIENT OF THE NIGHTTIME PLAYER NIGHT SKY CALCULATION OF PRODUCT HOMENT CORRELATION OF STATA A DESERVATION OF STATA A DESERVATION OF STATA A DESERVAT	MAGNETIC RESONA				EL
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FUEL CELL APPLICATIONS - LITHIATED NICKEL OXIDE, ZINC OXIDE, ANTHRAGENE, & PHENANTHRENE DATA ASD-TOR-62-89 N63-16113 13-29 THERMOELECTRIC MATERIALS - RESISTIVITY & SEEBECK COFFFICIENT OF COPPER, NICKEL, & BISMUTH SULFIDES, CUPROUS TELLURIDE & LEAD TELLURIDE MIXTURES SRI-21 N63-16835 14-16 PHYSICAL AND PREPARATIVE PROPERTIES OF TRANSITION METAL CHELATES - MOLYBDENUM, TUNGSTEN, AND NICKEL COMPOUNDS ARL-63-160 N63-22397 23-07 MICKEL PLATING ELECTROLESS NICKEL PLATING - CORROSION RESISTANCE AND THICKNESS DETERMINATIONS A62-12 N63-12367 06-17 GOLD, COPPER AND NICKEL PLATING OF INTERFACE ELECTRIC CONTACTS ON MINIATURE PRINTED CIRCUITS PP-T-9672-1 N63-18087 16-17 EMBRITTLEMENT RELIEF TREATMENT FOR ELECTROLESS NICKEL PLATED STEEL AND TOOL STEEL FTOM-3013 N63-21010 21-16 HYOROGEN EMBRITTLEMENT OF STEEL AFTER NICKEL-CADMIUM DIFFUSION PLATING - EFFECT OF DIFFUSION TIME INCREASE & STRESS RELIEF A057 N63-21871 22-16 NICKEL SULFATE HEAT CAPACITY OF HYDRATED NICKEL SULFATE BETWEEN 1 AND 20-DEG K & ELECTRON ENERGY OF NICKEL ION N63-23422 24-13 NIGHT LABORATORY SPECTRA OF THE ULTRAVIOLET OXYGEN NIGHT AIRGLOW - ATOMIC OXYGEN EXCITATION MECHANISMS N63-13014 07-13 LUNAR TEMPERATURE DETERMINATION DURING LUNAR NIGHTTIME NASA-CR-50148 N63-17133 15-26 ALTITUDE OF NIGHT AIRGLOW RADIATIONS N63-13014 07-13 RECOMBINATION COEFFICIENT OF THE NIGHTTIME F-LAYER N63-11324 03-13 NIGHT SKY CALCULATION OF PRODUCT HOMENT CORRELATION COEFFICIENT GEOM OLINARAL ORSERVATION OF SETZ A -	SPIN WAVES AND ENHANCEMENT IN	NUCLEAR MAG	RIDE DOM	AIN WALLS	10-23
CUPROUS TELLURIDE & LEAD TELLURIDE MIXTURES SRI-21 PHYSICAL AND PREPARATIVE PROPERTIES OF TRANSITION METAL CHELATES - MOLYBDENUM, TUNGSTEN, AND MICKEL COMPOUNDS ARL-63-160 NICKEL PLATING ELECTROLESS NICKEL PLATING - CORROSION RESISTANCE AND THICKNESS DETERMINATIONS A62-12 GOLD, COPPER AND MICKEL PLATING OF INTERFACE ELECTRIC CONTACTS ON MINIATURE PRINTED CIRCUITS PP-T-9672-1 EMBRITTLEMENT RELIEF TREATMENT FOR ELECTROLESS MICKEL PLATED STEEL AND TOOL STEEL FTDM-3013 HYDROGEN EMBRITTLEMENT OF STEEL AFTER MICKEL-CADMIUM DIFFUSION PLATING - EFFECT OF DIFFUSION TIME INCREASE & STRESS RELIEF A057 MICKEL SULFATE HEAT CAPACITY OF HYDRATED MICKEL SULFATE BETWEEN 1 AND 20-DEG K & ELECTRON ENERGY OF MICKEL ION N63-23422 24-1: MIGHT LABORATORY SPECTRA OF THE ULTRAVIOLET OXYGEN MIGHT AIRGLOM - ATOMIC OXYGEN EXCITATION MECHANISMS N63-13014 O7-1: LUNAR TEMPERATURE DETERMINATION DURING LUNAR MIGHTTIME NASA-CR-50148 N63-17133 15-2: RECOMBINATION COEFFICIENT OF THE MIGHTTIME PLAYER RECOMBINATION COEFFICIENT OF THE NIGHTTIME F-LAYER RECOMBINATION COEFFICIENT OF MIGHTTIME F-LAYER RECOMBINATION COEFFICIENT OF THE NIGHTTIME PLAYER RECOMBINATION COEFFICIENT OF THE NIGHTTIME RECOMBINATION OF PRODUCT MOMENT CORRELATION COEFFICIENT EDD DIJUBLAL ORSERVATION OF SS77 A - COEFFICIENT EDD DIJUBLAL ORSERVATION OF SS77 A -	FUEL CELL APPLI	ICATIONS - L	ITHIATED PHENANTH	RENE DATA	IDE.
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ARL-63-160 N63-22397 ARL-63-160 NICKEL PLATING ELECTROLESS NICKEL PLATING - CORROSION RESISTANCE AND THICKNESS DETERMINATIONS A62-12 GOLD, COPPER AND NICKEL PLATING OF INTERFACE ELECTRIC CONTACTS ON MINIATURE PRINTED CIRCUITS PP-T-9672-1 EMBRITTLEMENT RELIEF TREATMENT FOR ELECTROLESS NICKEL PLATED STEEL AND TOOL STEEL FTDM-3013 HYDROGEN EMBRITTLEMENT OF STEEL AFTER NICKEL-CADMIUM DIFFUSION PLATING - EFFECT OF DIFFUSION TIME INCREASE 6 STRESS RELIEF A057 NICKEL SULFATE HEAT CAPACITY OF HYDRATED NICKEL SULFATE BETWEEN 1 AND 20-DEG K & ELECTRON ENERGY OF NICKEL ION N63-23422 24-1: NIGHT LABORATORY SPECTRA OF THE ULTRAVIOLET OXYGEN NIGHT AIRGLOW - ATOMIC OXYGEN EXCITATION MECHANISMS N63-13014 07-1: LUNAR TEMPERATURE DETERMINATION DURING LUNAR NIGHTTIME NASA-CR-50148 N63-17133 15-2: ALTITUDE OF NIGHT AIRGLOW RADIATIONS N63-19685 N63-11324 03-1: NIGHT F LAYER RECOMBINATION COEFFICIENT OF THE NIGHTTIME F-LAYER NGGHT IONOSPHERE RECOMBINATION COEFFICIENT OF THE NIGHTTIME F-LAYER NIGHT SKY CALCULATION OF PRODUCT HOMENT CORRELATION COEFEICIENT OF THE NIGHTTIME PLAYER NIGHT SKY CALCULATION OF PRODUCT HOMENT CORRELATION COEFEICIENT OF THE NIGHTTIME PLAYER NIGHT SKY CALCULATION OF PRODUCT HOMENT CORRELATION COEFEICIENT OF THE NIGHTTIME PLAYER NIGHT SKY CALCULATION OF PRODUCT HOMENT CORRELATION COEFEICIENT OF SST7 A -	METAL CHELATES	- HOLYBOEN	IM, TUNGS	TEN, AND	ICKEL
RICKEL PLATING ELECTROLESS NICKEL PLATING - CORROSION RESISTANCE AND THICKNESS DETERMINATIONS A62-12 GOLD, COPPER AND MICKEL PLATING OF INTERFACE ELECTRIC CONTACTS ON MINIATURE PRINTED CIRCUITS PP-T-9672-1 EMBRITTLEMENT RELIEF TREATMENT FOR ELECTROLESS NICKEL PLATED STEEL AND TOOL STEEL FTDM-3013 HYDROGEN EMBRITTLEMENT OF STEEL AFTER NICKEL-CADMIUM DIFFUSION PLATING - EFFECT OF DIFFUSION TIME INCREASE & STRESS RELIEF A057 NICKEL SULFATE HEAT CAPACITY OF HYDRATED MICKEL SULFATE BETWEEN 1 AND 20-DEG K & ELECTRON ENERGY OF NICKEL ION N63-23422 A-1: NIGHT LABORATORY SPECTRA OF THE ULTRAVIOLET OXYGEN NIGHT AIRGION - ATOMIC OXYGEN EXCITATION MECHANISMS N63-13014 O7-1: LUMAR TEMPERATURE DETERMINATION DURING LUMAR NIGHTTIME NASA-CR-50148 N63-17133 15-2* ALTITUDE OF NIGHT AIRGION RADIATIONS N63-19685 19-1: NIGHT F LAYER RECOMBINATION COEFFICIENT OF THE NIGHTTIME P-LAYER RECOMBINATION COEFFICIENT OF NIGHTTIME F-LAYER RECOMBINATION COEFFICIENT OF THE NIGHTTIME P-LAYER RECOMBINATION COEFFICIENT OF THE NIGHTTIME RECOMBINATION COEFFICIENT OF THE NIGHTTIME P-LAYER RECOMBINATION OF PRODUCT MOMENT CORRELATION COEFFICIENT OF THE NIGHTTIME P-LAYER NIGHT SKY CALCULATION OF PRODUCT MOMENT CORRELATION COEFFICIENT OF THE NIGHTIME P-LAYER NIGHT SKY CALCULATION OF PRODUCT MOMENT CORRELATION COEFFICIENT OF STATA A COEFFICIENT OF STATA COEFFICIENT OF STATA COEFFICIENT OF STATA COEFFICIENT OF STATA COEFFICIENT OF S					
GOLD, COPPER AND NICKEL PLATING OF INTERFACE ELECTRIC CONTACTS ON MINIATURE PRINTED CIRCUITS PP-T-9672-1 EMBRITTLEMENT RELIEF TREATMENT FOR ELECTROLESS NICKEL PLATED STEEL AND TOOL STEEL FTDM-3013 N63-21010 21-10 N63-21010 NICKEL FTDM-3013 N63-21010 21-10 N63-21010 21-10 N63-21010 NIME INCREASE & STRESS RELIEF N63-21871 22-10 NICKEL SULFATE BETWEEN 1 AND 20-DEG K & ELECTRON ENERGY OF NICKEL ION N63-23422 24-1: NICKEL SULFATE BETWEEN 1 AND 20-DEG K & ELECTRON ENERGY OF NICKEL ION N63-23422 24-1: NICKEL SULFATE BETWEEN 1 AND 20-DEG K & ELECTRON ENERGY OF NICKEL ION N63-23422 24-1: NICKEL SULFATE BETWEEN N63-13014 07-1: NICKEL SULFATE BETWEEN NCORPELATION OF SST7 A NICKEL SULFATE BETWEEN NASHALI ON GEREFICIENT OF THE NIGHTTIME PLAYER NGOLD SULFATION OF SST7 A NICKEL SULFATE BETWEEN NASHALI ON GEREFICIENT OF SST7 A NICKEL SULFATE SULFATE SULFATION OF SST7 A NICKEL SULFATE	ELECTROLESS NIC	CKEL PLATING	- CORRO		
ELECTRIC CONTACTS ON MINIATURE PRINTED CIRCUITS PP-T-9672-1 EMBRITTLEMENT RELIEF TREATMENT FOR ELECTROLESS MICKEL PLATED STEEL AND TOOL STEEL FTDM-3013 HYDROGEN EMBRITTLEMENT OF STEEL AFTER NICKEL-CADMIUM DIFFUSION PLATING - EFFECT OF DIFFUSION TIME INCREASE 6 STRESS RELIEF A057 HICKEL SULFATE HEAT CAPACITY OF HYDRATED MICKEL SULFATE BETWEEN 1 AND 20-DEG K & ELECTRON ENERGY OF NICKEL ION N63-23422 24-1: NIGHT LABORATORY SPECTRA OF THE ULTRAVIOLET OXYGEN NIGHT AIRGLOW - ATOMIC DXYGEN EXCITATION MECHANISMS N63-13014 O7-1: LUNAR TEMPERATURE DETERMINATION DURING LUNAR NIGHTTIME NASA-CR-50148 N63-17133 15-2: NIGHT F LAYER RECOMBINATION COEFFICIENT OF THE NIGHTTIME P-LAYER RECOMBINATION COEFFICIENT OF THE NIGHTTIME P-LAYER RECOMBINATION COEFFICIENT OF THE NIGHTTIME RECOMBINATION COEFFICIENT OF THE NIGHTIME RECOMBINATION COEFFICIENT OF THE NIGHT ON COEFFICIENT OF TH	A62-12	JE I EKMINATIO		63-12367	06-17
EMBRITTLEMENT RELIEF TREATMENT FOR ELECTROLESS NICKEL PLATED STEEL AND TOOL STEEL FTDM-3013 N63-21010 21-16 HYDROGEN EMBRITTLEMENT OF STEEL AFTER NICKEL-CADMIUM DIFFUSION PLATING - EFFECT OF DIFFUSION TIME INCREASE & STRESS RELIEF A057 N63-21871 22-16 HICKEL SULFATE HEAT CAPACITY OF HYDRATED NICKEL SULFATE BETHEEN 1 AND 20-DEG K & ELECTRON ENERGY OF NICKEL ION N63-23422 24-1: HIGHT LABORATORY SPECTRA OF THE ULTRAVIOLET OXYGEN NIGHT AIRGION - ATOMIC OXYGEN EXCITATION MECHANISMS N63-13014 07-1: LUNAR TEMPERATURE DETERMINATION DURING LUNAR NIGHTTIME NASA-CR-50148 N63-17133 15-2: ALTITUDE OF NIGHT AIRGION RADIATIONS N63-19685 19-1: NIGHT F LAYER RECOMBINATION COEFFICIENT OF THE NIGHTTIME F-LAYER RECOMBINATION COEFFICIENT OF NIGHTTIME F-LAYER RECOMBINATION COEFFICIENT OF NIGHTTIME F-LAYER RECOMBINATION COEFFICIENT OF THE NIGHTTIME F-LAYER RECOMBINATION OF PRODUCT HOMENT CORRELATION OF STATA A COEFFICIENT OF STATA A COE	ELECTRIC CONTAC	CTS ON MINIA	TURE PRI	NTED CIRC	
NICKEL-CADDIUM DIFFOSION PAIRS RELIEF A057 NICKEL SULFATE HEAT CAPACITY OF HYDRATED NICKEL SULFATE BETWEEN 1 AND 20-DEG K & ELECTRON ENERGY OF NICKEL ION N63-23422 24-1: NIGHT LABORATORY SPECTRA OF THE ULTRAVIOLET OXYGEN NIGHT AIRCLOW - ATOMIC OXYGEN EXCITATION MECHANISMS N63-13014 07-1: LUNAR TEMPERATURE DETERMINATION DURING LUNAR NIGHTTIME NASA-CR-50148 N63-17133 15-2: ALTITUDE OF NIGHT AIRCLOW RADIATIONS N63-19685 19-1: NIGHT F LAYER RECOMBINATION COEFFICIENT OF THE NIGHTTIME F-LAYER RECOMBINATION COEFFICIENT OF NIGHTTIME F-LAYER N63-11324 03-1: RECOMBINATION COEFFICIENT OF THE NIGHTTIME F-LAYER RECOMBINATION COEFFICIENT OF THE NIGHTTIME F-LAYER RECOMBINATION COEFFICIENT OF THE NIGHTTIME RECOMBINATION COEFFICIENT OF THE NIGHTTIME F-LAYER RECOMBINATION OF PRODUCT HOMENT CORRELATION COEFFICIENT OF THE NIGHTTIME F-LAYER RIGHT SKY CALCULATION OF PRODUCT HOMENT CORRELATION COEFFICIENT OF THE NIGHTTIME COEFFICIENT OF THE NIGHT ON COEFFICIENT OF THE NIGHT OF THE NI		RELIEF TREAT			21-18
HEAT CAPACITY OF HYDRATED MICKEL SULFATE BETWEEN 1 AND 20-DEG K & ELECTRON ENERGY OF NICKEL ION 103-23422 24-1: NIGHT LABORATORY SPECTRA OF THE ULTRAVIOLET CAYGEN NIGHT AIRGLOW - ATOMIC DAYGEN EXCITATION MECHANISMS 103-13014 07-1: 104-11-11-11-11-11-11-11-11-11-11-11-11-11	DIFFUSION TIME	DIFFUSION 6	STRESS A	ELIEF	22-18
LABORATORY SPECTRA OF THE ULTRAVIOLET OXYGEN NIGHT AIRGLOW - ATOMIC OXYGEN EXCITATION MECHANISMS LUNAR TEMPERATURE DETERMINATION DURING LUNAR NIGHTTIME NASA-CR-50148 N63-17133 15-29 ALTITUDE OF NIGHT AIRGLOW RADIATIONS N63-19685 19-13 NIGHT F LAYER RECOMBINATION COEFFICIENT OF THE NIGHTTIME F-LAYER N63-11324 03-13 RECOMBINATION COEFFICIENT OF NIGHTTIME F-LAYER N63-14323 10-13 NIGHT IONOSPHERE RECOMBINATION COEFFICIENT OF THE NIGHTTIME F-LAYER N63-11324 03-13 NIGHT SKY CALCULATION OF PRODUCT HOMENT CORRELATION COEFFICIENT OF DAY OF SSTATA	HEAT CAPACITY (1 AND 20-DEG K	OF HYDRATED & ELECTRON	MICKEL S ENERGY O	SULFATE BET IF NICKEL 1 163-23422	TWEEN ION 24-13
NIGHTIME NASA-CR-50148 ALTITUDE OF NIGHT AIRGLOW RADIATIONS N63-19685 N63-1	LABORATORY SPEC		CITATION	MECHANISI	
ALTITUDE OF NIGHT AIRGLOW RADIATIONS N63-19685 19-13 NIGHT F LAYER RECOMBINATION COEFFICIENT OF THE NIGHTTIME F-LAYER RECOMBINATION COEFFICIENT OF NIGHTTIME F-LAYER N63-11324 03-13 NIGHT IONOSPHERE RECOMBINATION COEFFICIENT OF THE NIGHTTIME F-LAYER N63-11324 03-13 NIGHT SKY CALCULATION OF PRODUCT MOMENT CORRELATION COEFFICIENT OF PRODUCT MOMENT CORRELATION OF SSTARES	NIGHTTIME	URE DETERMIN			
RECOMBINATION COEFFICIENT OF THE NIGHTTIME F-LAYER RECOMBINATION COEFFICIENT OF NIGHTTIME F-LAYER NIGHT IONOSPHERE RECOMBINATION COEFFICIENT OF THE NIGHTTIME F-LAYER NIGHT SKY CALCULATION OF PRODUCT HOMENT CORRELATION OF SSTARES		GHT AIRGLOW	RADIATIO	INS	19-12
RECOMBINATION COEFFICIENT OF NIGHTTIME P-LAYER N63-14323 10-1: WIGHT IONOSPHERE RECOMBINATION COEFFICIENT OF THE NIGHTTIME F-LAYER N63-11324 03-1: WIGHT SKY CALCULATION OF PRODUCT MOMENT CORRELATION COEFFICIENT OF DIVIDUAL ORSEPVATION OF SSZZ A	RECOMBINATION C	DEFFICIENT			03-12
NIGHT IONOSPHERE RECOMBINATION COEFFICIENT OF THE NIGHTTIME F-LAYER NIGHT SKY CALCULATION OF PRODUCT HOMENT CORRELATION COEFFICIENT COMMISSION OF SSZZ A		PERSON SPREED			YER 10-12
CALCULATION OF PRODUCT HOMENT CORRELATION	RECOMBINATION OF-LAYER	COEFFICIENT		IGHTTIME	
MEUTRAL OXYGEN AFCRL-62-1024 N63-14182 09-1:	CALCULATION OF COEFFICIENT FRO NEUTRAL OXYGEN	PRODUCT HOP DM DJURNAL (BSERVATI	ON OF 557	A
WIGHT VISION EFFECTS OF PULSED LIGHTING UPON AIRCRAFT DISPLAYS RELATIVE TO PRESERVATION OF DARK ADAPTATION FOR	EFFECTS OF PULS RELATIVE TO PRE	SED LIGHTING	LIPON AT	BCRAFT DI	SPI AVE
NIGHT FLYING				2012/03/21/2	HOLD HISBORY

VISIBILITY OF SINGLE AND GROUPED PATCHES OF LIGHT AT NIGHT TO DARK-ADAPTED OBSERVER - VISUAL TARGET DISCRIMINATION COUNTERMEASURE APPLICATIONS

	N63-16226	13-14
NIGHT VISION TESTING - VISUAL PE	RCEPTION N63-19242	18-14
NIKE APACHE ROCKET NIKE-APACHE SOUNDING ROCKET PERF		
NASA-TN-D-1699	N63-13721	
METEOROLOGICAL AND BALLISTIC DAT 5R-006		
ERDA-8	N63-14484	
METEOROLOGICAL DATA FOR LAUNCHIN SR-007 ROCKET - AIR, WIND, IMPAC BALLISTIC FACTOR - ROCKET PERFOR	T PREDICTION MANCE	ACCOUNTED IN
ERDA-9	N63-15071	11-04
METEOROLOGICAL DATA - NIKE-APACH ERDA-29	E SR-008 N63-17527	16-21
METEOROLOGICAL DATA FOR LAUNCHIN SR-012 & SR-013 IN NEW MEXICO - CALCULATIONS	G NIKE-APACH BALLISTIC	E SMISK
ERDA-38	N63-18156	16-21
COMPUTER PROGRAM FOR FIN SETTING ROCKETS - NIKE, HONEST JOHN, APA ROCKETS	ON SOUNDING	GT-ASA ATTEST
	N63-18183	16-20
METEOROLOGICAL DATA GATHERED FOR NIKE-APACHE ROCKET, WHITE SANDS,	THE LAUNCHI	NG OF
ERDA-36	N63-18282	17-21
NEUTRAL ATMOSPHERIC COMPOSITION SPECTROMETER ON NIKE-CAJUN AND N		
	N63-18497	
METEOROLOGICAL DATA FOR NIKE-APA	CHE SR-014 R	OCKET
LAUNCHING - IMPACT PREDICTION & ERDA-47	N63-19121	18-21
METEOROLOGICAL DATA FOR NIKE-APA ERDA-72	N63-23430	24-21
NIKE CAJUN ROCKET	TO DAY OF THE TOP OF	21-03-998
NEUTRAL ATMOSPHERIC COMPOSITION SPECTROMETER ON NIKE-CAJUN AND N	VIKE-APACHE R	LOCKETS
NASA-CR-50465	N63-18497	17-15
DOPPLER RADAR TRACKING FOR TRAJE	CTORY OF	172-183
NSRC-4	N63-20730	
ROCKET RANGE WITH LAUNCHER AND C NIKE-CAJUN RESEARCH ROCKETS	OPPLER RADAR	FOR
NSRC-2	N63-20787	21-10
NIKE JAVELIN ROCKET ULTRAVIOLET TARGET RADIOMETER FO	OR INCORPORAT	TION IN
NIKE-JAVELIN ROCKET INSTRUMENT	N63-19763	19-15
MIKE ROCKET COMPUTER PROGRAM FOR FIN SETTING		-yox-ue
ROCKETS - NIKE, HONEST JOHN. AP	ACHE AND EXOS	- 301E
APGC-TOR-63-30	N63-18183	16-20
NIMBUS SATELLITE SPACE APPLICATIONS - TIROS, NIME	BUS, AND AERO N63-10555	05 01-30
METEOROLOGICAL SATELLITES FOR ME NIMBUS AND TIROS SATELLITES		

NIMBUS SPACECRAFT FOR WEATHER ANALYSIS AND FORECASTING N63-11460

NIMBUS SATELLITE DATA PROCESSING SYSTEM
N63-12009

NIMBUS DATA-HANDLING SYSTEM FOR CLOUD PICTURES AND INFRARED INFORMATION N63-12008 05-20

NIMBUS SATELLITE DATA PROCESSING OF CLOUD PICTURES N63-12010 05-20

N63-11460 03-30

14 1 21

04

21

21

20 F 21

TS 15 T 21 T -21

TS -15

-08 72

-10 IN

-20

-30

NG. -21

-30 AND -20

-20

RES -20

NEGGTON BASED ALLDYS NAS-19032 (519)	CRYSTALLIATION OF THE CHTERNETALLIC COMPCUND OF
NIMBUS SATELLITE AND ITS COMMUNICATION SYSTEM NASA-TN-D-1422 N63-12125 D5-32	TIROS & NIMBUS METEOROLOGICAL SATELLITE SYSTEMS - DATA ACQUISITION & RECORDING NASA-AL-D-4-83 N63-21336 21-32
HIMBUS SATELLITE AUTOMATIC PICTURE-TAKING SUBSYSTEM - GEOGRAPHIC POSITION, RECTIFICATION, TRACKING - DATA REDUCTION	NIRBUS METEOROLOGICAL SATELLITE SYSTEM FOR DATA ON MORLOWIDE ATMOSPHERIC PROCESSES - REAL-TIME
ARA-T-9219-1 No3-17984 16-32	WEATHER FORECASTING AND RESEARCH NASA-RP-10 HA3-21369 22-32
HIMBUS PROJECT - MANAGEMENT PLANNING AND SYSTEMS ANALYSIS MASA-TM-X-50151 N63-18601 17-30	NIOBIUM NIOBIUM & ITS ALLOYS - SOURCES, PRODUCTION
NIMBUS PROJECT - SYSTEMS ANALYSIS	FIGURES, USES & PROPERTIES FTD-TT-62-1256/162 N63-10340 D1-18
NIMBUS PROJECT - MANAGEMENT PLANNING - CONTRACTORS N63-18603 17-30	HIGH ENERGY NUCLEAR REACTIONS OF NIOBIUM WITH INCIDENT PROTONS AND HELIUM IONS UCRL-10461
NIMBUS SATELLITE - METEOROLOGICAL APPLICATIONS - DELINEATION OF ICE PACKS AND MAPPING OF SNOW FIELDS - HEAT BALANCE AND DATA TRANSMISSION M63-18604 17-30	NONFERROUS METALS - DEFORMATION STRUCTURE OF NIOBIUM, SILUMIN, TITANIUM JPRS-16855 N63-11337 03-18
NIMBUS SATELLITE - SYSTEMS DESIGN - DATA	SINTERING NIOBIUM POMDER JPRS-16841 N63-11338 03-18
ACQUISITION - TELEVISION TRANSMISSION - ORBITAL NECHANICS 17-30	STRAIN AGING EFFECTS IN NICHTUM DUE TO HYDROGEN EMBRITTLEMENT NAS-13245 07-18
HIMBUS SATELLITE - SYSTEMS ANALYSIS - SENSORY RING CONTENTS - MANAGEMENT PLANNING N63-18606 17-30	COMPOSITION OF PURE ALUMINUM AND NIOBIUM BY ARC-
NIMBUS PROJECT - INTEGRATION AND TEST PROGRAM - MANAGEMENT PLANNING - CONTRACTOR RESPONSIBILITY N63-18607 17-30	REFRACTORY METAL PROTECTIVE SYSTEMS RESEARCH - MOLYBDENUM, MIDBIUM, TUNGSTEM, TANTALUM -
NIMBUS SATELLITE - GROUND SUPPORT SYSTEM - COMMAND	BIBLIOGRAPHY TOR-169/3240-31/TR-2 N63-14236 10-18
AND DATA ACQUISITION STATIONS N63-18608 17-30	MACHINING OF REFRACTORY MATERIAL - TUNGSTEN, MOLYBOENUM, MIOBIUM, PYROCERAM AND ALLOYS ASD-TR-7-532A/VI/
NIMBUS SATELLITE - STABILIZATION AND CONTROL ALTITUDE SUBSYSTEMS FOR YAM, ROLL AND PITCH AXIS NO3-1609 17-30	MACHINING OF REFRACTORY MATERIAL. TUNGSTEN.
HIMBUS SATELLITE - STRUCTURAL CONCEPTS AND DESIGN PERTAINING TO SYSTEMS FLEXIBILITY N63-18610 17-30	NIOBIUM AND ALLOYS, RESIN, ZIRCONIUM OXIDE AND ZIRCONIUM AND ALUMINUM OXIDE COATINGS ASD-TR-7-532A/VII/
HIMBUS SATELLITE - CONCEPTS DEVELOPMENT OF PRESENT STRUCTURAL DESIGN N63-18611 17-30	NIGBIUM DIFFUSION BARRIER FOR ALUMINUM-CLAD URAMIUM ALLOY FUEL ELEMENTS NAA-SR-7973
NINBUS SATELLITE - THERMAL ENVIRONMENT CONTROL AND THERMAL DESIGN 17-30	HIGH TEMPERATURE STUDY OF ANELASTICITY OF TANTALUM
NIMBUS SATELLITE - ELECTRICAL AND MECHANICAL SUBSYSTEMS M63-18613 17-30	ASD-TDR-62-323 N63-15034 11-17 NOTCH SENSITIVITY OF TANTALUM, NIOBIUM, HOLYBDENUM, REFRACTORY METALS - IMPACT PROPERTIES, FRACTURE
NIMBUS SATELLITE - SOLAR POWER SYSTEM AND GROUND SUPPORT SYSTEM N63-18614 17-30	TOUGHNESS, CRACK PROPAGATION N63-15094 11-18
NIMBUS SATELLITE - INTEGRATED COMMAND AND CLOCK SUBSYSTEM 17-30	NOTCH SENSITIVITY OF REFRACTORY METALS - HIGBIUM, TUNGSTEN, TANTALUM, MOLYBDENUM, AND MOLYBDENUM- TITANIUM ALLOYS ASD-TOR-62-1004 N63-15689, 12-16
NIMBUS SATELLITE - PULSE-CODE-MODULATED TELEMETRY SUBSYTEM M63-18616 17-30	HIGH TEMPERATURE OXIDATION-RESISTANT COATINGS FOR
NIMBUS SATELLITE - MEDIUM AND HIGH RESOLUTION SCANNING RADIOMETERS FOR INFRARED	TANTALUM ALLOYS, NIGBIUM, TUNGSTEN, AND MOLYBDENUM ASO-TOR-63-160 N63-16496 14-17
NAME NAME NAME NAME NAME NAME NAME NAME	GINARY AND TERNARY PHASE DIAGRAMS OF NIDBIUM, MOLYBORNUM, TANTALUM AND TUNGSTEN DMIC-183 M63-16586 14-18
AUTOMATIC PICTURE TRANSMISSION SYSTEM - NIMBUS	YIELD BEHAVIOR OF POLYCRYSTALLINE NIGBIUM TEAM-244 N63-16727 14-18
NAME NAME NAME NAME NAME NAME NAME NAME	PHOTOELECTRIC WORK FUNCTION AND DAYGEN ADSORPTION PROPERTIES OF NIOBIUM SINGLE CRYSTALS AFGRL-62-949/SUPPL-/ N63-17083 15-25
N63-18620 TRANSPORT OF VILLEARING WOLVENINGS	WORK HARDENING MECHANICS AND DEFORMATION OF BODY-
PROGRAMMING NA3-18621 17-30	ASD-TDR-62-354, PT. II N63-17672, 16-18 PREPARATION OF NIOBIUM AND TANTALUM BY METALLIC
NIHBUS SATELLITE - INTEGRATION AND TEST PROGRAM	REDUCTION OF THEIR CHLORIDES

454-A

THERMODYNAMIC PROPERTIES OF MOLYBDENUM AND NIOBIUM - ANNOTATED BIBLIOGRAPHY SB-62-69 N63-18002 16-18

N63-18002 16-18

TAPE RECORDERS FOR NIMBUS SATELLITE - ELECTRONIC
AND MAGNETIC SYSTEMS, CONTROL OF *ECORD & READOUT
MASA-RP-30
N63-21275 21-21

TO JEST TIMES AND THE

51

CRYSTALLIZATION OF THE INTERMETA NIOBIUM AND TIN IN 3-TO-1 RATIO		O OF	NIOBIUM BASED ALLOYS	N63-19032	18-19
SUPERCONDUCTORS R-170	N63-19366	18-25	TITANIUM, ALUMINUM & NIOBIUM AS FOR HIGH TEMPERATURE USE - TENSI RUPTURE TESTS	LE & STRESS-	
RELATIONSHIP OF TWINNING TO BRIT REFRACTORY METALS - POLYCRYSTALL	INE HOLYBDEN	JH-	ARF-8201-27 SHEET ROLLING OF NIOBIUM ALLOYS	MO3-17003	18-18
RHENIUM ALLOY, NIOBIUM	N63-19376 ION - TUBING	18-18		M63-19287	18-18
SN-91657 BIBLIOGRAPHY OF MOLYBDENUM, NIOB	N63-21424	22-18	NIOBIUM ALLOY SHEET PROCESSING	N63-20341	20-18
MOLYBDENUM-NIOBIUM ALLOY METALLUI TID-3572	RGY N63-22220	23-18	WELDABILITY STUDIES OF THREE COM BASE ALLOYS - REFRACTORY METALS PROGRAM		
INTERSTITIAL ALLOYING ELEMENTS US			DMIC-MEMO-169	N63-20426	20-18
AROD-2530-2 MIOBIUM ALLOY	N63-22564		HIGH TEMPERATURE AND STRENGTH RE SHEET MATERIAL OF TITAMIUM, NIOB ZIRCONIUM METALS		
NIOBIUM-HAFNIUM BINARY ALLOYS FOR TEMPERATURE SERVICE BM-RI-6101	N63-10127	01-18	NIOBIUM AND NIOBIUM ALLOY EXTRUS SN-91657	ION - TUBING N63-21424	
NIOBIUM & ITS ALLOYS - SOURCES, F	WITGELM ON		DISPERSION STRENGTHENING TO IMPR		
FIGURES, USES & PROPERTIES FTD-TT-62-1256/1&2	N63-10340	01-18	STRESS RUPTURE PROPERTIES OF VAN ALLOYS IITRI-B6007-4		22-18
METALLURGICAL AND METALLOGRAPHIC FTD-TT-62-134/1	INVESTIGATION M63-10520	DNS 01-18	NIOBIUM-BASE ALLOY FOR USE IN NU		SOURTH
ELECTRON BEAM, SPOT, FLASH BUTT	ELDING OF		PROJECT BMI-1636	N63-21714	22-18
ASD-TDR-62-292	N63-10704	02-18	ELECTRON BEAM WELDHENTS OF COATED		
AN EVALUATION OF PROTECTIVE COATS ALLOY SHEET MATERIAL	N63-10964	02-18	A069 TENSILE STRENGTH OF COATED D-36	N63-21877	22-18 v
COATING PROCESSES FOR HIDBIUM ALL PF-62-15		04-17	A070	N63-21878	22-18
MOLYBDENUM AND NIOBIUM ALLOYS FOR	HIGH	RINDER	OXIDATION RESISTANT COATINGS FOR MOLYBOENUM ALLOYS	N63-22124	
ESRD-7-19	MARKATON AT MULT	05-17	BIBLIOGRAPHY OF MOLYBDENUM, NIOBIO MOLYBDENUM-NIOBIUM ALLOY METALLURO TID-3572		Source
USE AT 1200 TO 1800-DEG F		OR-19	INTERSTITIAL ALLOYING ELEMENTS U		
UPPER CRITICAL FIELD OF NIOBIUM-Z			NIOBIUM & NIOBIUM ALLOYS AROD-2530-2	THE STATE OF THE S	23-18
NIOBIUM-TITANIUM ALLOYS BSD-TDR-63-62	N63-14201	09-18	LOCAL ORDER & SOLID-SOLUTION STRE	ENGTHENING I	N
TECHNIQUE OF APPLYING PROTECTIVE NIOBIUM ALLOYS			ASD-TDR-63-567	N63-23112	24-18
PF-63-3 VACUUM ARC MELTING OF TUNGSTEN BA	TOATSA Y NOT	11-17	PYROFIBER, FREE-STANDING, PYROGRI PYROCARBIDE		
ALLOY - EFFECT OF MELTING RATE ON			S-515	N63-13844	09-17
ASO-TOR-63-296 NIOBIUM ALLOY SHEET ROLLING PROGR	STATE POLICIE MU	13-16	MECHANICAL PROPERTIES OF ZIRCONIC ZIRCALOY 2 - NIOBIUM OXIDE ALLOY KAPL-2252		12-18
ACCOMPANIENCE THEFE OF SOLITABLE	N63-16545	14-18	PHASE RELATIONSHIPS OF MOLYBDENUM	, NIOBIUM A	706534
NIOBUH BASE ALLOY AS ALKALI METAL MATERIAL FOR NUCLEAR TURBOELECTRI	CONTAINMENT C SPACE POWE	A THE SA	TUNGSTEN BORIDES, CARBIDES AND ST ANNOTATED BIBLIOGRAPHY	N63-18872	ZOENIN
SYSTEMS NASA-CR-50339	N63-18397	17-18	SB-63-9 OXIDATION RESISTANCE OF ALUMINUM-		
INTERMETALLIC PROTECTIVE COATING NIOBIUM ALLOYS SUBJECTED TO REENT ENVIRONMENT - REFRACTORY METAL			INTERMETALLIC COMPOUNDS GEMP-218	N63-20685	20-18
NASA-CR-50540	N63-18416		MIP JUNCTION METHOD FOR DISTINGUISHING HIGH EN	ERGY PROTON	S
NIOBIUM ALLOY AS STRUCTURAL MATER VEHICLES D2-35105			AND MESONS HAVING SAME IMPULSE, E JUNCTION CHARACTERISTICS IN SILIC	SASED ON NIP	2000
MECHANICAL PROPERTIES OF CARBON-N ALLOYS - METALLURGY WADC-TR-75-344, PT. VII	108 IUM BASE N63-18779		NITRASOL EXPLOSIVE COMBUSTION INSTABILITY OF NITRASC URETHANE-AMMONIUM PERCHLORATE PRO OF ALUMINUM ADDITIVE, BURNING RAT	DE AND POLY-	
DISPERSION-STRENGTHENING MECHANISM NIOBIUM BASE ALLOYS IITRI-86007-3	NS IN VANADIO		NITRATE T SENT-ENE	N63-15596	12-26
MECHANICAL AND PHYSICAL PROPERTIES	S OF TANTALUE		DECOMPOSITION KINETICS OF LIQUID CATALYZED BY CHRONIUN COMPOUNDS	100 TO THE RESERVED IN CO.	
	THE HAVE TO BE	A-670	15-15 ETT18-T0M		

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26

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N63-10594 02-07 KINETICS OF DECOMPOSITION OF LIQUID AMMONIUM NITRATE N63-10595 02-07	EFFECT OF RADIATION AND NITRIC ACID-MITRATE SALT SOLUTION ON PLASTIC AND OTHER MOMMETALLIC MATERIAL 100-14590 12-18
MELTING POINT MEASUREMENTS FOR THE TETRAMETHYL-	ELECTROLYSES IN ANHYDROUS HYDROGEN FLUORIDE
AMMONIUM MITRATE-NITRIC ACID SYSTEM N63-11496 03-07	SYSTEMS - HE-MITROUS DXIDE, HE-MITROGEN TETROXIDE, MITRIC DXIDE R-5077 M63-15917 13-07
PREPARATION AND PROPERTIES OF GLYCOL MITRATES TIL/T-5339 M63-11651 04-07	PSILON-CARBIDE EFFECT ON PASSIVITY OF STEEL IN
DETONATION INITIATION AS FUNCTION OF INITIAL TEMPERATURE IN NITROGLYCERINE-ETHYLENE GLYCOL DINITRATE N63-11757 04-26	DISSOLUTION AND ETCH PITS IN IRON MHISKERS IN HYDROCHLORIC CUPROUS CHLORIDE, HYDROFLUORIC FERRIC FLUORIDE, NITRIC, PICRIC, AND SULFURIC SOLUTIONS
DETERMINATION OF DIFFUSIVITY AND SOLUBILITY IN THO PHASE SYSTEMS - LITHIUM NITRATE MATT-148 N63-12102 05-07	ASD-TDR-63-473 R63-18802 18-18 PUMP TESTING FOR USE IN NITRIC ACID-ALUMINUM DXIDE
PHASE TRANSFORMATION IN CALCINATION OF NITRATES OF ALUMINUM, STAINLESS STEEL, AND NICKEL-CHROMIUM	SLURRY SERVICE 100-14612 N63-20722 21-17
ALLOYS 1D0-14601	MITRIC OXIDE ENERGY LEVELS OF THE MITRIC OXIDE MOLECULE BY
EFFECT OF RADIATION AND NITRIC ACID-NITRATE SALT SOLUTION ON PLASTIC AND OTHER NOMBETALLIC	ABSORPTION SPECTRA AFCRL-62-1016 N63-10214 01-07
MATERIAL IDD-14598 N63-15540 12-18	ABSORPTION SPECTRUM OF THE MITRIC OXIDE MOLECULE AFCRL-62-1118 M63-11020 03-07
MAGNETIC SUSCEPTIBILITY OF HYDRATED CUPRIC NITRATE AT LOW TEMPERATURE N63-18425 17-25	GENERATION OF A LUMINOUS TRAIL IN NIGHT SKY BY RELEASE OF ROCKETBORNE CHEMICALS - NITRIC OXIDE N63-11247 03-12
PLASMA COMPOSITION IN THE PLUME OF A SOLID PROPELLANT ROCKET ENGINE CONTAINING CESIUM NITRATE AND POTASSIUM NITRATE RAD-TM-63-14 N63-19186 18-27	FINE STRUCTURE OF NITRIC OXIDE GAMMA 0-0 BAND FOR TEMPERATURE DETERMINATION NGJ-14492 10-07
MELTING PROPERTIES OF SILVER NITRATE TO 10,000 ATM	CHARGE PRODUCTION IN NITROGEN AFTERGLOW BY MITRIC
NAA-SR-8422 N63-19741 19-07	DXIDE ADDITION SXI-16-P N63-14565 10-07
DENSITY, VAPOR PRESSURE, VISCOSITY AND FREEZING POINT OF HYDRAZINE MOMONITRATE IN HYDRAZINE NASA-CR-50970 N63-21071 21-26	YIELD OF NITRIC OXIDE FROM HYDROGEN & HYDROCARBONS WITH NITROUS OXIDE NASA-TN-D-1736 N63-15954 13-26
ACUTE MAMMALIAN TOXICITY OF RARE EARTH HITRATES & OXIDES - RAT STUDY SAM-TOR-63-38 N63-22827 23-16	COMBUSTION OF HYDRAZINE AND DIMETHYL HYDRAZIME, MITRIC OXIDE, MITROUS OXIDE AND DXYGEN N63-18514 17-26
NITRATE ION DISSOCIATION IN PUSED NITRATES - NITROGEN DIOXIDE-DXYGEN ELECTRODE & MITRATE ION- CARBONATE ION DISSOCIATION CONSTANTS	NITRIC OXIDE AND MOLECULAR DXYGEN IN UPPER ATMOSPHERE OF EARTH N63-19684 19-12
15-618 N63-22992 23-07	ABSORPTION SPECTRUM OF NITRIC OXIDE MOLECULE AFCRL-63-822 N63-19974 19-23
CHEMICAL REACTIONS AND PROPERTIES OF POLYETHYLENE GLYCOLS AND THEIR NITRATES TIL/7-5342 N63-23397 24-07	IONIC PRODUCTION AND RECOMBINATION OF DXYGEM. NITROGEN, AND NITRIC DXIDE AND THEIR IONS IN THE
IMPROVED TENSILE PROPERTIES OF DISPERSION- STRENGTHENED NICKEL ALLOYS PREPARED BY THERMAL	IONOSPHERE AFCRL-63-834 N63-21170 21-12
DECOMPOSITION OF THORIUM NITRATE N63-23630 24-18	RADAR ECHO DETECTION OF IGNIZED NITAIC OXIDE IN E- AND F-REGIONS OF IGNOSPHERE SEL-63-063 N63-22798 23-12
NITRATION CF CHEMICAL REACTION NITRATION OF 3,3,3-TRIFLUORO-1,2-EPOXYPROPANE PA-TR-3055 N63-15950 13-07	MITRIDATION MITRIDATION RATES OF URANIUM-FISSIUM ALLOYS ANL-6642 M63-12140 05-07
FUMING NITRIC ACID SERVICING SENI-TRAILER SSO-TDR-62-174 N63-11022 03-26	MITRIDE REFRACTORY HATERIAL BASED ON BOROW HITRIDE JPRS-16158 N63-10622 02-19
MELTING POINT MEASUREMENTS FOR THE TETRAMETHYL- AMMONIUM NITRATE-NITRIC ACID SYSTEM N63-11496 03-07	CERAMICS AND REFRACTORY MATERIALS - BERYLLIUM OXIDE AND SILICOM MITRIDE JPRS-16807 N63-11207 03-18
CLOSED LOOP HEAT TRANSFER APPARATUS FOR YESTING HONOPROPELLANTS PA-TH-1119 N63-12425 06-13	REFRACTORY MATERIALS RESEARCH - VAPORIZATION AND EMISSIVITY OF INTERSTITIAL BORIDES AND MITRIDES NGS-12177 05-10
SPECTROGRAPHIC DETERMINATION OF BORON IN BN NITRIC ACID SOLUTIONS N63-12440 06-07	DIFFUSIVITY OF TITANIUM CARBIDE AND THERMO-
LOW-TEMPERATURE CHEMICAL STARTING OF COMBINED JP-4 NITRIC ACID PROPELLANT FOR LOW-THRUST ROCKET	APPLICATION - 1/4 FLOW AL-8058 - 1229 - 2224 - 22240 GRIDO #63-12290 - 05-15
ENGINE USING THREE-FLUID PROPELLANT VALVE MACA-RM-E55E04 M63-12540 M63-12540	HEAT AND FREE ENERGY OF FORMATION OF MITRIDE AND CARBIDE OF VANADIUM BM-R1-6177 M63-12781 06-19

REFRACTORY MATERIALS FOR ADVANCES	ROCKET ENG	INE	ARL-62-431	N63-11007	03-26	
COMPONENTS R-3350-3	N63-12944	07-18	TRITIUM DETERMINATION - PHYSICAL	AND RADIONE	TRIC	
FABRICATION OF TITANIUM DIBORIDE - TITANIUM NITRIDE - BORON NITRIDE ROCKET NOZZLE INSERTS			OP-511 ATST SHE KON STREET BUZZEN	N63-11236	03-07	
TR-371-9/4 N63-13136 07-17			EFFECT OF ATMOSPHERIC PRESSURE, GRAVITY, AND PARTIAL PRESSURE OF NITROGEN ON PLANT GROWTH			
HIGH TEMPERATURE ALLOYS OF BORIDE MITRIDE, AND SILICIDE		75-12 FO-1	NO PROPERTIES OF LOT ACONTACTOR	N63-11477	03-16	
FT0-TT-62-430/162	N63-13175	SURFACES, EFFECT OF TESLA	NITROGEN AND OXYGEN RECOMBINATION SURFACES, EFFECT OF TESLA DISCHAP			
ACTIVATION ENERGY FOR SUBLIMATION HITRIDE UCRL-10702	M63-16504	14-23	RECOMBINATION HEAT TRANSFER NASA-TN-D-1567	N63-11742	04-13	
ROCKET NOZZLE INSERTS OF TITANIUM	Commence of the control of the contr	DIT DIT	VISCOSITY OF NITROGEN, HELIUM, NE LOW TEMPERATURES AND HIGH PRESSU		ON AT	
TITANIUM NITRIDE AND BORON NITRID WAL-TR-371.9/5		14-27	BRN-3-P	N63-11774	04-23	
PARTICLE PRODUCTION OF BORON NITA THICKENER	IDE AS A GR N63-17842	EASE 16-07	SYNTHESIS OF ELASTOMERS CONTAINING NITROGEN BONDS - SCREENING OF MOUP POLYMERIZATION	IG SILICON- IOMERS FOR N63-12052	05-07	
THERMAL EXPANSION AND ATOMIC VIBA FOR TITANIUM CARBIDE, TITANIUM MI CARBIDE, ZIRCONIUM NITRIDE, AND P C-17	TRIDE, ZIRC	ONIUM	CERENKOV SCINTILLATION COUNTER ME BERYLLIUM, BORON, CARBON, NITROSI SUMSPOT COSMIC RADIATION	ASUREMENTS (EN, OXYGEN II N63-12179	05-28	
PROPERTIES OF URANIUM MONONITRIDE	FABRICATED	BY III-	SPUTTERING OF COPPER BY NITROGEN OF PRESSURE AND TEMPERATURE	10NS AS FUN N63-12261	05-18	
ISOSTATIC HOT-PRESSING TECHNIQUE BMI-1633	N63-21163	21-19	THERMODYNAMIC PROPERTIES OF NITRO	-ATMOSPHERES	97	
COMPUTATION ON GROUND STATE WAVE CARBON/DI-MITRIDE MOLECULE	FUNCTION FO N63-21770	R DI- 22-23	NBS-TN-129 CHENICAL SCAVENGER STUDY OF ATON	N63-12472	06-23	
NITRILE PREPARATION OF PHOSPHONITRILE MON	DHESC		MOLECULE CONCENTRATION IN NONEQUI SUPERSONIC FLOW OF NITROGEN		A - 1 A	
	N63-12216	05-07	TP-40 DY STARFIA ASVISE TO 1917A	N63-12804	06-07	
PHYSICAL PROPERTIES OF VULCANATES NITRILE-BUTADIENE RUBBER AND STYR RIA-TR-63-1574	ENE RUBBER	BLENDS 19-19	OXYGEN AND NITROGEN CHEMISTRY OF IAS PAPER-63-4	UPPER ATMOS N63-12882	PHERE 07-07	
NITRITE CF NITRIDE	(Thin 91 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	us-TT ut as-	VAPOR-LIQUID EQUILIBRIA FOR HELII METHANE MIXTURE 8M-RI-6178	JH-NI TRDGEN- N63-13029	07-07	
NITROCELLULOSE		3 3	PEAK-OSCILLATOR STRENGTH IN ELECT	TRON SPECTRU	M OF	
PROCESS FOR NITROCELLULOSE PROPEL RANGE 0.8 TO 1.3 G/CC	LANT IN DEN	SITY	AFCRL-63-212	N63-13049	07-12	
	N63-13948	09-17	THERMODYNAMICS OF CARBON DIOXIDE BEHIND NORMAL SHOCK WAVE	AUTHORIZATION A	*	
PHOTOPLASTICITY EXPERIMENTS - UNL RELOADING EFFECTS ON NITROCELLULO AROD-1283-20		16-33	NASA-TN-D-1553 EFFECT OF NITROGEN ON STRAIN BEH	N63-13217	07-23 I 304	
NITROCELLULOSE PROPELLANT FOR TRA	STANDARD STAN	TT-27	STAINLESS STEEL UNDER LOW STRESS			
GUN BRL-MEMO-1485	N63-19746	19-26	AUTOMATIC APPARATUS FOR ESTIMATION	IG COMMON EL	EMENTS	
NITROGEN SA LIQUID NITROGEN	DIES BADA BADA	19-10	IN ORGANIC MATTER TIL/T-5107	N63-13318	07-07	
SA MOLECULAR NITROGEN SA SOLID NITROGEN VISCOSITY OF GASES BY OSCILLATING	DISK METHO	12 11 11	PROTON AND NEUTRON ANGULAR DISTRICATION AND NEUTRON-14 AND CARBON-REACTIONS BETWEEN 3.2 AND 4.1 MET	-13/CARBON-1	CATER	
A PROPERTY OF SAME SERVICE AND THE PERSON OF	N63-10093	01-23	EFFICIENCY OF OXYGEN MASKS DETER	WALLEST THE PART OF THE PART O	07-23	
AFTERGLOW OF NITROGEN AND NITROGE MIXTURES AFCRL-62-1010	M63-10117		NITROGEN CONTENT WITHIN THE MASK CARI-62-21	N63-13325	07-16	
FREE ELECTRONS IN ACTIVE NITROGEN	N63-10280	01-23	ATMOSPHERIC CONDITION EFFECTS ON CONTROLLED ENVIRONMENTS OF NITRO		CUUM	
DEVELOPMENT OF A HOT GAS VALVE	N63-10545		MRL-5880 HSTEYE GIDALOFATTIG-STA	N63-13338	08-18	
HECHANICS OF CHEMICAL REACTIONS	M63-10591	02-07	MECHANISM OF GETTERING - REACTION AND TITANIUM WITH CARBON DIOXIDE AFCRL-63-7	NS OF CERALL AND NITROGE N63-13427	OY 400 N 08-23	
SPECIFIC AREA OF POWDERS USED IN TESTING METHOD, NITROGEN ADSORPTI	HARD ALLOYS	120	IONIZATION OF NITROGEN AND DXYGER	N MOLECULES	8Y E 08-23	
ANALYSIS OF IONIZED GASES - HASS GA-3358	SPECTROMETR	02-23	GAS USING THERMALLY SHIELDED CRY	& CARBON DI	DXIDE	
EXPLOSION LIMIT STUDIES OF NITROU NITROUS OXIDE-NITROGEN-AIR MIXTUR		15-1 10	MOLECULES & TRANSITION FLOW AEDC-TDR-63-28 N63-136			

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E

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VIBRATIONAL MONEQUILIBRIUM WITH MITROGEN IN LOW- DEMSITY FLOW AEDC-TDR-63-31 N63-13657 08-11	TUBE - NITROGEN AND DXYGEN N63-1688114-11			
THERMODYNAMIC PROPERTIES OF NITROGEN N63-13663 08-23	FLOW OF DISSOCIATING MITROGEN BETWEEN TWO PARALLEL PLATES - RESULTS USED TO ESTIMATE FLOW OF AIR FTD-TT-62-1145/16246 NS3-16933 14-11			
REACTION OF OXYGEN ATOMS IN THE /D/ STATE WITH	DETERMINATION OF TRACES OF MITRIDE MITROGEN IN			
NITROGEN JPL-TR-32-288 N63-13930 09-07	SODIUM BY TITATION			
EXCITED STATES IN NITROGEN 14 FROM CARBON 12 PLUS O REACTIONS	ABSORPTION SPECTRUM OF SHORT-LIVED PINK AFTERGLOW OF NITROGEN PHOTOGRAPHED IN VACUUM ULTRAVIOLET FROM 1600 TO 1150 ANGSTROMS			
ATOM CONCENTRATIONS PRODUCED BY MICROWAVE DISCHARGE IN NITROGEN AND HYDROGEN	NASA-CR-50485 N63-18367 17-23			
N63-14085 09-23 SUPERCOMPRESSIBILITY FACTORS OF 5 MIXTURES STUDIED	SPHERICAL DETONATIONS OF ACETYLENE DAYGEN MITROGEN MIXTURES AS FUNCTION OF NATURE AND STRENGTH OF INITIATION NO18527 17-26			
FOR VOLUMETRIC CORRECTION OF ORIFICE METER MEASUREMENT OF CRUDE HELLUM	ATOMIC RECOMBINATIONS INVOLVING NITROGEN ATOMS,			
BM-RI-6192 ADOTS AT 18 BOT MOTO GOT M63-14200 1:09-11	HYDROGEN ATOMS AND OZONE - EMISSION SPECTRUM - ABSORPTION STUDIES M63-18564 17-07			
LON TEMPERATURE ULTRAVIOLET ABSORPTION SPECTRA OF OXYGEN IN LIQUID AND SOLIO MEDIA - ARGON AND NITROGEN N63-7429 N63-14224 09-07	KINETICS OF HYDROCARBON-DXYGEN-HITROGEN FLAME SYSTEMS AND MOLECULAR MEIGHTS OF CHAIN CARRIERS M63-14565 17-07			
ROTATIONAL EXCITATION AND MOMENTUM TRANSFER CROSS SECTIONS FOR ELECTRONS IN HYDROGEN AND NITROGEN FROM TRANSPORT COEFFICIENTS	LIQUID-VAPOR EQUILIBRIUM IN ARGON, DXYGEN AND NITAGEN MIXTURES AT 20 ATMOSPHERES PRESSURE			
LOCAL PARAMETERS IN COCURRENT MERCURY-NITROGEN	THERMODYNAMIC PROPERTIES OF AIR AND NITROGEN TO			
THO-PHASE FLOW ANL-6625 BOSKOTO SKIROUND TO MOT N63-14562 10-11	15,000-DEG K AEDC-TDR-63-136 463-18855 18-11			
CHARGE PRODUCTION IN NITROGEN AFTERGLOW BY NITRIC OXIDE ADDITION	SQUID PROJECT - THERMOCONDUCTIVITY OF NITROGEN AND			
SR1-16-P 310AR 3018304378 H37087 N63-14565 13 10-07	ARGON NO 123112 GREENED SHIR N63-16984 1218-13 .			
SPECTROGRAPHY IN PLASMA JET ANALYSIS - CONICAL SUPERSONIC NOZZLE USING ARGON OR NITROGEN SC-4776/RR/ M69-14752 11-24	SODIUM LINE REVERSAL TEMPERATURE MEASUREMENTS OF NITROGEN AND AIR IN SHOCK TUBE N63-19188 10-11			
ELASTOMER SYNTHESIS CONTAINING SILTCON AND NITROGEN 11-07	MASS SPECTROMETRY OF THE LOWER LONGSPHERE ABOVE MALLOPS ISLAND - DIFFUSIVITY OF ARGON & NITROGEN NASA-TN-D-1851 N63-19605 19-12			
THERMODYNAMIC PROPERTIES OF HIGH TEMPERATURE NITROGEN N63-15069 11-24	STAGNATION POINT LANINAR HEAT TRANSFER OF SPHERE			
PROFILE OF SHOCK WAVE FRONT IN ARGON AND NITROGEN N63-15334 12-11	AEDC-TDR-63-139 11 199903 HOISMA4 N63-19644 11 19-13			
TRANSPIRATION COOLING OF TURBULENT BOUNDARY LAYER IN AXISYMMETRIC NOZZLE BY SECONDARY INJECTION OF	CONTINUUM IMPRANCE RADIATION FROM AIR AND MITAGGEN SHOCK MEATED TO EQUILIBRIUM TEMPERATURE OF 6000 TO 9000-DEG			
HELIUM AND MITROGEN PIBAL-772 N63-15686 12-26	AVCO-EVERETT RES. REPT154			
EJECTION OF ELECTRONS FROM SURFACE OF TUNGSTEN BY LOW ENERGY ION, HELIUM, HYDROGEN, NITROGEN	HIXTURES			
AND DXYGEN R-161 DMA METERO CHESTORITY TO 21 M63-15745 12-25	POSITRON ANNIHILATION IN CONDENSED GASES - HELIUM, HYDROGEN, NITROGEN, & DXYGEN N63-20508 20-11			
SOLUBILITY AND DIFFUSION OF GASES IN BERYLLIUM - OXYGEN, NITROGEN AND HYDROGEN ASD-TDR-62-1018 N63-15750 12-18	EFFECT OF LOW-TEMPERATURE AGING ON MYSTERESIS LOSS IN NITROGEN-CONTAINING ALPHA-IRON COA-153			
FIELD ION MICROSCOPE OBSERVATION OF ADATOMS -	DECAY OF MITODOEN DIASNAS IN MADER CONTO EL ON HISTOR			
NITROGEN ON TUNGSTEN - ADSORPTION	LOW-DENSITY MOZZLE USCEC-81-101 N63-20764 21-24			
EFFECT OF GAS AND SURFACE TEMPERATURE ON CRYOPUMPING OF NITROGEN AND ARGON N63-16033 13-11	THREE-DIMEMSIONAL DISPLAY SYSTEM WITH NITROGEN- QUENCHED MERCURY VAPOR & ACQUISTIC MAYE SCANNING RADC-TDR-63-202 N63-2082 21-06			
INFRARED SPECTRA AND TEMPERATURE DISTRIBUTIONS OF ARGON AND NITROGEN PLASMA JETS	PERFORMANCE OF D-C ARC OPERATING IN NITROGEN N63-20936 21-24			
ARL-63-35 N63-16512 14-24	IONIC PRODUCTION AND RECOMBINATION OF OXYGEN,			
HIGH TEMPERATURE TRANSPORT PROPERTIES OF NITROGEN, HYDROGEN, DXYGEN, AND AIR RAD-TM-63-7	IONOSPHERE APONOTIN MORT MOITAIGE AND THEIR IONS IN THE AFCRL-63-034 TOMOS MUJIREI LUGSMAN M63-21170 U 21-12			
VIBRATIONAL-NONEQUILIBRIUM FLOW OF NITROGEN IN	NITADGEN SPECTRA FROM GLOW ON GROUNDED PROBE IN			
HYPERSONIC NOZZLE MASA-TH-D-1810 MS3-16745 14-11	SUPERSONIC MOIST AIR FLOW BRL-MENO-1490 01488 308480 30842 N63-21249 1 21-02			

11-675

EQUILIBRIUM GAS DYNAMICS AND PROPERTIES BEHIND INCIDENT, AND REFLECTED MORMAL SHOCK MAYES IN SHOCK

STEADY EXPANSION OF SHOCK-PROCESSED MITROGEN GAS IN THE REFLECTED SHOCK WIND TUNNEL - PERFORMANCE

N

H

CHARTS ARC-CP-633	N63-21310	21-11	RADIATION FROM ARC HEATED PLASMA - H TEMPERATURE NITROGEN N63	HIGH 1-23483	24-2
MOLECULAR STRUCTURE AND SPECT THREE BANDS OF GOLDSTEIN-KAPL UNDER HIGH RESOLUTION & ROTAT	AN SYSTEM OF N	ITROGEN		-23653	24-2
ABSORPTION SPECTRUM OF MITROG REGION - HOLECULAR STRUCTURE			MITROGEN ATOM KINETICS OF THREE-BODY ATOM RECOMBIN NITROGEN, HYDROGEN	ATION -	SEACT STEED
ISOTOPIC SHIFTS IN SOME ULTRA NITROGEN - MOLECULAR STRUCTUR	VIOLET SYSTEMS E AND SPECTRUM N63-21742	OF 22-23	AN-625 N63 CALIBRATION OF FLYABLE MASS SPECTROM NITROGEN AND DXYGEN ATOMS		14-0
LOW ENERGY STATES OF HITROGEN	MOLECULE - MO	LECULAR	AFCRL-63-437	-18808	18-1
SELF-CONSISTENT-FIELD WAVE FU	NCTIONS FOR TR	22-23	NITROGEN COMPOUND FORMATION REACTIONS OF NITROXYCHLGRI TIL/T-5372 N63	DE -10573	01-0
NITROGEN AND MITROGEN DIGXIDE	N63-21772	22-23	ISOMERISM OF DINITROGEN TETROXIDE - REACTION OF MITROGEN DIOXIDE WITH HY	DRAZOIC	ACID
DIRECT NUMERICAL CALCULATIONS DI-MITROGEN MOLECULE	M43-21774	VELS OF 22-23	TIL/T-5369 N63 SHELL STABILITY IN LARGE SPACE VEHIC	-10606 LE BOOST	02-0 ERS
OXIDES FOR HIGH TEMPERATURE COXYGEN & NITROGEN	HEMICAL SEPARA N63-21803	710N OF 22-07	LARGE SHELL STRUCTURE DESIGN PROBLEM	-10810	02-3 HICH
LOCAL & TOTAL CIRCULATORY ALTERATIONS ACCOMPANYIN DECOMPRESSION, BREATHING OF GAS MIXTURES OR			CONSTRUCTION NOSE CONES N63	-10811	02-3
SAM-TOR-62-113	M63-21860	22-16	ROCKET ENGINE STARTING WITH MIXED OX NITROGEN AND LIQUID AMMONIA BY FLON- NACA-RM-E53F05 N63		ITIVE 06-2
AFTERGLOW AS RESULT OF CATALY DIATONIC NITROGEN IN DISCHARGE AROD-3493-2	ES	22-11	KINETICS OF REACTION OF CHLORINE DIO NITROGEN DIOXIDE IN SOLUTION PHASE TIL/T-5373	XIDE WITH	H 06-0
HONREACTING QUENCHING COMPOUNT PRODUCTION IN ATOMIC NITROGEN	AND DAYGEN GAS		DISSOCIATION OF NITROGEN BIFLUORIDE HIGH ENERGY PROPELLANT OXIDIZER	world aggress	
PHOTOELECTRIC OBSERVATIONS OF	CALL STREET, S	22-11	NITROGEN HONOHYDRIDE AS INTERMEDIATE	PRODUCT	08-0
ULTRAVIOLET SPECTRA OF AFTERGO	*** **********	22-11	DECOMPOSITION OF CHLOROAMINE BY ULTR		T-24.49
NITROGEN			THE RESERVE THE PROPERTY OF THE PARTY AND ADDRESS.		
MICROWAVE DISCHARGES	NIC NITROGEN IN N63-21948	22-24	PHOTOLYTIC AND THERMAL DISSOCIATION (NITROGEN-FLUORINE COMPOUNDS EXP-223/3 N63-	CHEMISTRY -14485	10-0
ELASTICITY AND EXPANSION COEFF HYDROGEN & NITROGEN RSIC-49	N63-22023	.IUM, 22-19	FLUOROCARBON NITROGEN-FLUORINE COMPO	ME 40 37	13-0
LOCAL HEAT TRANSFER COEFFICIEN FACTORS FOR TURBULENT FLOW OF HELIUM IN SMOOTH TUBES	TS & FRICTION	£ 23-13	ELECTRONIC STRUCTURE OF NITROGEN DIF	LORIDE GF	16-0
SEHAVIOR OF HYDROGEN COMPARED NITROGEN & ARGON USING EQUIVAL	WITH DXYGEN,	#100 1.1 MJ7X [H 19-25	DISSOCIATION CHEMISTRY OF MITROGEN FOR COMPOUNDS EXP-223/4	tal sed serving	16-0
RSIC-46 RADIATION SURROUNDING SPHERES		23-23 N 6	COMBUSTION ANALYSIS OF HYDROGEN, OXYO NITROGEN DIOXIDE MIXTURES N63-	GEN AND -18520	17-20
KEL-F IN AIR, NITROGEN & CARBON BY HULTIPLIER PHOTOTUBE SYSTEM NOLTR-63-154	IN DIOXIDE DETE	CTED	FLUOROCARBON NITROGEN-FLUORIDE COMPOU BROMINE CYANIDE AND SODIUM CYANIDE RE	UNDS FROM	805703
PULSED DISCHARGE IN NITROGEN A	100 100 100 100	77.73	WITH SULFUR TETRAFLUORIDE	13327	19-0
ARL-63-105	N63-22495	23-23	NITROGEN TRIFLUDRIDE REACTIONS WITH I		
MICROWAVE SCATTERING FROM CYLI PLASMA, SEEDED WITH SODIUM, PO	NORICAL NITROG TASSIUM, & CES N63-22500	TUH	CORROSION PRODUCTS	-20945	21-01
MICROWAVE DETERMINATIONS OF AF AND ELECTRON COLLISION PARAMET	TERGLOW TEMPER	ATURES	SPECTROSCOPY, PHOTOLYSIS, AND ADIABA COMPRESSION SHOWING DISSOCIATION CHEP NITROGEN FLUORIDE COMPOUNDS	HISTRY OF	MOTOR AND
AFCRL-63-358 AU ADED AND BROWN SERVICE	N63-22734	23-23	THE THEFTH MITH CHANGE DICKIES WAS	TRATALNA	22-01
KRAMER & LINE RADIATION FROM N IN EQUILIBRIUM & NONEQUILIBRIU DEFENDER PROJECT	ITROGEN & AIR		COMPOUNDS AND POLYMERS CONTAINING SIL BONDS FOR SPACE VEHICLE USE - COATING FLUIDS AND IMPREGNATING RESINS FOR GA MASA-CR-5137A	LICON-NIT GS, HYDRA ASKETS -21735	ROGEN ULIC 22-07
NASA-CR-51850	N63-23008	24-11	PLUIDS AND IMPREGNATING RESINS FOR GAMASA-CR-51374 SELF-CONSISTENT-FIELD WAVE FUNCTIONS	31-1,003(11)	ANGEN
IDENTIFICATION OF SPACE CHARGE RE ARC CATHODE IN NITROGEN OR ARGON GENERATOR	REGION NEAR C	24-24	NITROGEN AND NITROGEN DIOXIDE HOLECUL	LES	22-23
ALL SOLD THE PARTY OF THE PARTY	DIVERSE TO BE LIVED IN SE		ELECTRONIC CONFIGURATION AND BEHAVIOR	OF NITE	OGEN

H

7

5

N63-20945 21-07

HTLS BOTHER AND RUSTEN

PARTIES ON PHILIP ADDRESSION DEVICES ON PARELWHAT	CHILDREN FOR BINDS STORES VERLEGOS DE PROMANE SANGEN DE STORES DE
DIFLUGRIDE GROUP - ELECTROCHEMISTRY, COMPLEX FORMATION AND MAGNETIC RESONANCE	PARLOR TO 455 FORM AND 10 STANDEN NO. 17634 16-17
163-22084 22-09	EXPLOSIONS INDUCED BY CONTACT OF HYDRAZINE FUELS MITH NITROGEN TETROXIDE - FIRE HAZARD
SYNTHESIS OF ELASTOMERS WITH SILICON-MITROGEN BONDING BY CROSS-LINKING N63-22519 23-07	ASD-TDR-62-685 N63-17985 16-16
SEPARATION & IDENTIFICATION OF SULFUR-FLUORINE AND NITROGEN-FLUORINE COMPOUNDS - GAS CHROMATOGRAPH TO MASS SPECTROMETER	STORABLE LIQUID PROPELLANTS - MITROGEN TETROXIDE, AEROZIME 50 AND RELATED COMPOUNDS LRP-198 /20 ED./
CARDE-TN-1524 N63-22747 23-23	COMPATIBILITY OF POLYVINYLIDENE FLUGALDE STRUCTURE WITH NITROGEN TETROXIDE AND HYDRAZINE
NITRATE ION DISSOCIATION IN FUSED NITRATES - NITROGEN DIOXIDE-OXYGEN ELECTRODE & NITRATE ION- CARBONATE ION DISSOCIATION CONSTANTS IS-618 M63-22992 23-07	NASA-CR-50999
LOM-PRESSURE ENVIRONMENT REACTION OF HYDRAZINE AND NITROGEN TETROXIDE N63-23609 24-16	RUPTURE DHIG-NENO-173 N69-22817 23-16
PHOTOLYSIS OF NITROGEN DIOXIDE IN VIOLET AND ULTRAVIOLET SPECTRUM NASA-CR-52016 N63-23619 24-07	NITROGEN 15 CARBON-14 AND NITROGEN-15 TRACER STUDIES OF AMINO ACID SYNTHESIS DURING PHOTOSYNTHESIS BY CHILDRELLA N63-14692 10-07
CHEMISTRY OF INORGANIC NITROGEN FLUORIDES RSIC-77 NITROGEN POLYMER POLYMER POLYMERS WITH SILICON-NITROGEN RONDS	NITROGLYCERIN OF EXPLOSIVE DETONATION INITIATION AS FUNCTION OF INITIAL
POLYMERS WITH SILICON-MITROGEN BONDS N63-13639 08-07	TEMPERATURE IN NITROGLYCERINE-ETHYLENE GLYCOL OINITRATE N63-11777 04-24
STUDY OF SILICON-NITROGEN POLYMERS FOR PROTECTIVE COATING AND THERMAL SHIELDING APPLICATIONS N63-13646 08-07	NITROMONOMERS AND THEIR APPLICATION TO SOLID SMOKELESS PROPELLANTS M63-10600 02-24
STUDY OF SILICON-NITROGEN POLYMERS FOR PROTECTIVE COATING AND THERMAL SHIELDING APPLICATIONS N63-13647 08-07	MITROSAMIME BASICITY OF N-MITROSAMINES AND AQUEOUS SULFURIC ACID SOLUTIONS AROD-2276-3 N63-12711 06-07
STUDY OF SILICON-HITROGEN POLYMERS FOR PROTECTIVE COATING AND THERMAL SHIELDING APPLICATIONS N63-13648: 08-07	ULTRASOUND - EFFECT ON NITROPARAFFIN-CARBONYL CONDENSATION FTD-TT-62-1261/184 N63-13580 98-07
POLYMERS WITH SILICON-NITROGEN BONDS FOR COATING MATERIAL N63-13649 08-07	NITROSO COMPOUND RUBBER - PHYSICAL PROPERTIES OF VULCANIZATES BASET ON NITRILE-BUTADIENE RUBBER AND STYRENE RUBBER BLENDS
POLYMERS WITH SILICON-MITROGEN BONDS FOR COATING MATERIAL N63-13650 08-07	RD-343-Q1 N63-19886 19-19
POLYMERIZATION OF SILAMES AND CYCLOSILAMES TO POLYMERS CONTAINING SILICON-MITROGEM BONDS MASA-CR-50736 N63-19262 18-07	NITROUS OXIDE SAMPLING STUDIES DOWNSTREAM OF HYDROGEN-NITROUS OXIDE-DILUENT FLAMES
TESTS OF POLYMERS CONTAINING SILICON & NITROGEN IN SPACE TEMPERATURES NASA-CR-50954 N63-21050 21-07	EXPLOSION LIMIT STUDIES OF HITROUS OXIDE AND MITROUS OXIDE-NITROGEN-AIR MIXTURES
REACTIONS OF POLYMERS CONTAINING SILICON-NITROGEN BONDS WITH POTASSIUM NASA-CR-51790 N63-22579 23-07	ARL-62-431 N63-11007 03-20 KIMETICS OF NITROUS DXIDE DECOMPOSITION AT HIGH PRESSURE AND TEMPERATURE
POLYMERS CONTAINING SILICON-NITROGEN BONDS NASA-CR-51791 N63-22580 23-07	ARL-62-430 N63-11008 93-20 DETONABILITY OF NITROUS OXIDE AT ELEVATED PRESSUR!
NITROGEN TETROXIDE ISOMERISM OF DINITROGEN TETROXIDE - KINETICS OF	AND TEMPERATURE ARL-62-432 N63-11538 93-20
REACTION OF NITROGEN DIOXIDE MITH HYDRAZGIC ACID TIL/T-5369 N63-10606 02-07	INFRARED ABSORPTION BY NITROUS OXIDE, CARBON MONOXIDE AND METHANE N63-11588 Q4-01
TESTS TO DETERMINE FEASIBILITY OF USING WATER FOG OR THERMAL UPDRAFT TO CONTROL OR DISPERSE FUMES FROM SPILLED NITROGEN TETROXIDE	INFRARED ABSORPTION BY WATER VAPOR AND NITROUS OXIDE
SSD-TDR-62-177 N63-11134 03-26 MECHANISM AND CHEMICAL INHIBITION OF MYDRAZINE- NITROGEN TETROXIDE REACTION	ELECTROLYSES IN ANHYDROUS HYDROGEN FLUGRIDE SYSTEMS - HE-NITROUS QXIDE, HE-NITROGEN TETROXIDE NITRIC OXIDE R-5077 N63-15917 13-0
ASD-TOR-62-1041 N63-12170 05-26 HANDLING AND STORAGE OF NITROGEN TETROXIDE PROPELLANT	VIELD OF NITRIC OXIDE FROM HYDROGEN & HYDROGARBON: WITH MITROUS DXIDE MASA-TN-D-1736 N63-15954 13-24
RTO-TOR-63-1033 N63-15735 12-26	COMBUSTION OF HYDRAZINE AND DIMETHYL HYDRAZINE.
ELECTROLYSES IN AMMYDROUS HYDROGEN FLUORIDE SYSTEMS - HF-NITROUS OXIDE, HF-NITROGEN TETROXIDE, NITRIC OXIDE	MITRIC OXIDE, NITROUS OXIDE AND OXYGEN
R-5077 (C %) and (C %) (1/4/15) 211/4 N63-15917 (213-07	NITROGEN TRIFLUORIDE REACTIONS WITH DILUTE SODIUM HYDROXIDE - NITROUS OXIDE PRODUCED FROM MONEL
IMPACT SENSITIVITY OF MATERIAL IN CONTACT WITH LIQUID OXYGEN AND NITROGEN TETROXIDE	CORROSION PRODUCTS HQ-76-2 N63-20945 21-0

M(3-20945 215-03

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DETONATION AND SHOCK TUBE STUDI NITROUS OXIDE MIXTURES	ES OF HYDRAZI	NE AND
ARL-63-157	N63-22347	23-26
RATE & MECHANISM OF DECOMPOSITE ARL-63-134	ON OF NITROUS N63-22590	
NITROXYCHLORIDE FORMATION REACTIONS OF NITROXYC TIL/T-5372	HLORI DE N63-10573	01-07
NITRYL CHLORIDE NITRYL CHLORIDE - CHEMICAL REAC PURIFICATION, EXPLOSIVE PROPERT PROPELLANTS & BINDERS - BIBLIOG	IES & USE IN	ATION,
SB-62-63	N63-14073	09-07
THERMODYNAMIC PROPERTIES OF NIT JPL-TR-32-253	RYL FLUORIDE N63-10651	
NOBLE GAS SPUTTERING YIELDS FOR METALS UN BOMBARDMENT	DER NOBLE GAS N63-10764	ION
NOBLE GAS ABUNDANCE IN EARTH AT	HOSPHERE AND	IN
METEORITES NASA-CR-50315	N63-18418	
NOISE SA COSMIC NOISE SA GAUSSIAN NOISE		
SA JET MOISE SA RADIO MOISE SA RANDOM MOISE CF ACQUISTICS	TOTAL ENE TON	
CF INTERFERENCE CODING METHOD FOR A REPORTING S TRAVEL	YSTEM IN SPAC	
WGL PAPER-43	N63-10039	01-20
EXTREMELY LOW FREQUENCY MAGNETIC VARIATION		
AFCRL-62-734	N63-10147	
NONLINEAR FILTER FOR IMPROVEMEN DETECTABILITY IN THE PRESENCE OF HOUSE	T OF SIGNAL F NON-GAUSSIA	N
AF-98	N63-10284	01-15
OBSERVATION OF CORRELATION BETW IN GREENLAND	EEN AURORA AN	D HISS
AFCRL-62-1033	N63-10295	01-12
EXCESS NOISE IN SEMICONDUCTORS	N63-10406	01-25
AERODYNAMIC NOISE FROM JETS AND	FLOWS, FLUID	MH-13
DILATATIONS UTIA-86	N63-10636	02-23
DETECTION OF CAVITATION NOISE I	N A PIPELINE	BY AN
ACCELEROMETER MATT-142	N63-10784	02-23
BOUNDARY LAYER NOISE MEASUREMEN	TS OF THE F-1	DZA
AIRCRAFT MRL-TDR-62-71	N63-10906	02-16
EMISSION STABILIZATION OF THERM NBS-TN-160	IONIC DIODE N N63-11031	01SE 03-09
FEEDBACK COMMUNICATION SYSTEMS AFCRL-62-921	N63-11335	03-08
OPTIMUM DETECTUR FOR FREQUENCY TRANSMISSION THROUGH A RAYLEIGH RADC-TDR-62-554		EL 03-08
LOGICAL UNITS IN METEORIC RADAR LIFETIME, AND NOISE		GNAL 03-08
VERY LOW FREQUENCY RADIO NOISE AFCAL-62-1140	N63-11694	04-08
FREQUENCY MODULATION RECEIVER N PIBMRI-1041-62		04-08
MECHANISH FOR NOISE OF THIN EVA	PORATED METAL	44.20

FILMS ESL-R-149	N63-12044	05-09
AUDIOLOGY EXAMINATIONS OF AIRCR SAM-TOR-62-127	AFT PILOTS N63-12463	06-14
NOISE SPECTRUM AND TRANSFER FUN GAS-COOLED REACTOR AND ARMY REA	CTION ANALYSIS	OF
AGN-TH-399 HEARING & BIOACOUSTICS - NRL AC	N63-12602 TIVITIES - 19	06-23
IATES-CAN	N63-12824	06-16
PROPERTIES OF PHOTODETECTOR - S FREQUENCY RESPONSE, AND NOISE P NOLC-558	OWER SPECTRUM	07-15
LOW NOISE PARAMETRIC AMPLIFIER OF SOUNDING ROCKET	FOR RADAR TRAIN63-13258	07-09
AMPLITUDES OF NARROW BAND SIGNA NORMAL NOISE BACKGROUND		
NUNT:	N63-13423	
GAIN, BANDWIDTH, NOISE AND SYST PERFORMANCE OF RADAR PARAMETRIC	EM TESTS FOR AMPLIFIER N63-13480	
RANDOM EXCITATION OF STEEL PANE	L. BOUNDARY L	AYER
FLUCTUATIONS, GRAZING INCIDENCE WAVES AND NOISE FROM AIR JET AASU-231	, ACOUSTIC PL	08-33
CANDOLD IND A 1803 OF THEORY WAS N		
HIGH TEMPERATURE ENVIRONMENTAL SIMULATE STRUCTURAL LOADING, VI NAMC-ASL-1042	BRATION, AND N63-13567	ES TO NOISE 08-10
SPACE VEHICLE LAUNCHING AND ASS SATURN LAUNCH VEHICLE — OPERATI RESULTING FROM VIBRATION	OCIATED NOISE ONAL PROBLEMS N63-13857	09-30
WIDE FLARE HORN ANTENNA FEED DE PATTERNS, LOW NOISE, BROADBAND EFFICIENCY CAPABILITIES	SIGN - RADIAT & HIGH APERTU	ION
AFCRL-62-757	N63-13988	09-08
LARGE SIGNAL TRAVELING WAVE TUB DEPRESSED POTENTIAL COLLECTORS, KLYSTRONS, LOW NOISE CRESTATRON RADC-TDR-63-8	ES & AMPLIFIE	RS, H GUNS S 09-20
UNIVERSITY OF SOUTHAMPTON RANDO PHYSICS, NOISE, VIBRATION ASD-TDR-63-91	CAME IN COMMERCE	
ASD-TDR-63-91	N63-14055	09-10
PROBABILITY DISTRIBUTION AT OUT RECEIVER UNDER BAND-LIMITED WHI PLUS NOISE	PUT OF LOGARI TE NOISE AND	THMIC
PIBMRI-1087-62	N63-14228	09-20
ACOUSTIC FILTERS FOR ATTENUATIN	G NOISE IN LI	QUID
DRL-A-202	N63-14398	10-23
EFFECTS OF SPECTRAL CONTENT AND	DURATION OF	
HASA-TN-D-1073	N63-14430	10-23
WORD FREQUENCY EFFECT - WORD ID HIGH NOISE CONDITIONS - BROWN A RESPONSE BIAS MODEL	ENTIFICATION ND RUBENSTEIN N63-14808	
BOUNDARY LAYER HOISE - THIN STE TURBULENT FLOW	CONTRACTOR STATE OF THE PARTY	10 010 = 7
UTIA-87	N63-14834	
ERROR CORRECTING DEVICE THAT EX NOISE IN DIGITAL COMMUNICATION PIBHRI-1076-62	AMINES IMPULS SYSTEM N63-15175	E 11-08
NONSTATIONARY WHITE NOISE - POI		
IMPULSES OF VARYING STRENGTH AAE-63-1	N63-15418	

OPTIMAL PROGRAMMING OF MULTIVARIABLE CONTROL SYSTEMS IN PRESENCE OF NOISE N69-15639 12-20

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\$10 (ECO 310E)
EFFECT OF NOISE SUPPRESSION DEVICES ON TURBOJET ENGINE TESTING AND TURBOJET AIRCRAFT RUN-UP GROUND OPERATION - TEST FACILITY CALIBRATION AMRL-TOR-62-134 13-04
CUMULATIVE AUDITORY EFFECT RESULTING FROM MULTIPLE EXPOSURE TO INTENSE ACOUSTICAL STIMULATION — DEAFENING EFFECTS OF NOISE ON CATS AMRL-TOR-02-99/1/ N63-16286 13-18
COMPRESSIBLE FLUID FLOW STABILITY AND AERODYNAMIC
ADOCKET NOISE SIMULATION WITH SUBSTITUTE GAS JETS AND EFFECT OF VEHICLE MOTION ON JET NOISE ASD-TDR-62-787 14-23
CALCULATION AND SIMULATION OF NOISE ENVIRONMENTS OF GUIDED MISSILES FOR COMPONENT TESTING N63-16759 14-15
COMPUTER SIMULATION FOR RADIO FREQUENCY BACKSCATTER - COMPUTER SIMULATION OF NOISE SIGNALS A0-277582 N63-16833 14-20
POWER SPECTRA OF TIME SERIES FOR ESTIMATING NOISE SPECTRA
METHOD FOR SUPPRESSING PHOTOMULTIPLIER NOISE UCRL-6886, REV. 1 N63-17537 16-09
VIBRATION ENERGY LEVEL AND NOISE REDUCTION IN FLIGHT VEHICLES NASA-CR-50448 N63-17942 16-23
ANALYSIS OF STRUCTURAL DAMPING FOR CONTROL OF VIBRATION AND NOISE NASA-CR-50343 N63-18147 16-23
EFFECT OF ROCKET ENGINE NOISE AND VIBRATION FIELDS ON PERSONNEL AND GROUND STRUCTURES - ACOUSTICS
N63-18244 17-23 FREE FLIGHT SURFACE PRESSURE NOISE MEASUREMENTS FOR SCOUT LAUNCH VEHICLE AT SUPERSONIC SPEEDS WITH VARYING FREE STREAM PRESSURES AND REYMOLDS NUMBERS NASA-TN-D-1818 N63-18462 17-08
DETECTION OF STOCHASTIC PROCESSES IN NON-GAUSSIAN NOISE
RADC-TDR-63-192 N63-18647 17-08 FAR FIELD ACOUSTIC RESONANCE DUE TO PROPAGATION OF SOUND FROM ROCKET ENGINE MAGA-TM-0-1823 N63-18887 18-23
MANAGEMENT TO THE PROPERTY OF
PILOT ERROR IN SPACE RENDEZVOUS MANEUVER FROM NOISE INTERFERENCE OF RADAR SYSTEM NASA-TN-0-1619 N63-19176 18-14
HOISE SIGNAL AND CARRIER MODULATION IN ELECTRICAL CABLES DURING NUCLEAR PULSE IRRADIATION USAELROL-TR-2334 18-08
TRANSISTORIZED LOW NOISE CONSTANT TEMPERATURE HOT HIRE ANEMOMETER
POKKER-PLANCK EQUATION APPLIED TO MONLINEAR DYNAMIC SYSTEMS SUBJECTED TO EXCITATION BY WHITE RANDOM NOISE N69-20103 20-23
ACOUSTICS - NDISE SOURCES AND PROPAGATION IN PLIGHT VEHICLES N63-20880 21-23
SPEECH DISCRIMINATION IN NOISE ENVIRONMENT OF INDIVIDUALS WITH HEARING LOSS N63-20920 21-17
BINARY SEQUENTIAL DETECTION OF SIGNALS IN NOISE RADC-TDR-63-179 N63-21227 21-08

BIOLOGICAL EFFECTS OF VIBRATION INCLUDING NOISE -REVIEW AND CHRONOLOGICAL BIBLIOGRAPHY N63-21554 Z2-16

TOUTTED SYAGNATION HOUSEPANTA AND

NOISE BEHAVIOR OF ELECTRON BEAMS IN RANGE OF MICROWAVE TUBES N63-21642 22-23

RELATIONSHIP BETWEEN LOW FREQUENCY NOISE AND FAILURE IN RESISTORS AND SEMICOMPUCTOR DEVICES RADC-TDR-63-338 PHOTOCONDUCTIVITY AND NOISE IN SINGLE CRYSTAL TELLURIUM N63-22074 NOISE THRESHOLD OF EXPONENTIAL MODULATION SYSTEMS
WITH EMPHASIS ON OSCILLATING LIMITER
RADC-TDR-63-330 22-09 LOW NOISE TUNNEL DIODE MIXERS AND CONVENTERS RADC-TDR-63-325 N63-22121 22-09 SONIC FATIGUE FACILITY - SIREN PROGRAMMING, NOISE SPECTRA, AND EXPERIMENT PLANS ASD-TDR-63-674 N63-22486 23-33 WIND TUNNEL INVESTIGATION OF TURBULENT BOUNDARY LAYER MOISE AS RELATED TO DESIGN CRITERIA FOR HIGH-PERFORMANCE VEHICLES NASA-CR-51730 N63-23033 24-YF12H30 2H312A3 M63-23033 24-02 1H SOLID STATE NOISE GENERATORS - HIGH AMPLITUDE WHITE NOISE AND AVALANCHE BREAKDOWN MECHANISMS N63-23376 2 CONVENTIONAL AND FEEDBACK FREQUENCY MODULATION SYSTEMS - NOISE THRESHOLD AMALYSIS N63-23575 24-09 SYNCHROTRON EMISSION AS SOURCE OF VERY HIGH FREQUENCY AURORAL NOISE SEL-62-149/SUP/ M63-23659 24-28 EXHAUST NOZZLE NOISE SUPPRESSION PROGRAM FOR SUPERSONIC TRANSPORT PROPULSION SYSTEMS N63-23763 24-27 ACHIEVING NOISE SUPPRESSION & HIGH THRUST PERFORMANCE WITH PLUG-TYPE EXHAUST NOZZLES FOR SUPERSONIC TRANSPORTS N63-23764 2 NOTSE DIODE SILICON PLANAR DIODES AS UNIFORM NOISE GENERATORS WHEN OPERATED IN THE AVALANCHE REGION N63-14284 10-09 TR-1099 NOISE ELIMINATION
ELECTRICAL AND MECHANICAL INTERFERENCE AND MEANS
OF NOISE ELIMINATION
MR-005.09-1401.04
N63-12048
05-08 EFFECTS OF NANUAL ATTACK-DISPLAY NOISE FILTERING ON PILOT TRACKING PERFORMANCE N63-12504 06-08 NUMERICAL ANALYSIS OF MATRIX USING ITERATIVE SOLUTION FOR IMPROVING RESULT OBTAINED BY GAUSSIAN ELIMINATION JPL-TR-32-394 N63-15317 12-7 12-20 STREET WORLDS NOISE MEASUREMENT NOISE MEASUREMENTS DURING CAPTIVE AND LAUNCH FIRINGS OF A LARGE ROCKET-POWERED VEHICLE NASA-TN-D-1502 N63-10650 02-27 EFFECTS OF SPECTRAL CONTENT AND DURATION OF PERCEIVED NOISE LEVEL NASA-TN-D-1073 N63-14430 10-23 HIGH ALTITUDE X-BAND NOISE MEASUREMENTS AFCRL-63-B7 N53-15967 ESTINATION OF NOISE LEVEL AT SURFACE OF ROCKET-POWERED VEHICLE N63-16079 POWERED VEHTCLE ACOUSTICS - PHYSIOLOGICAL EFFECT, NOISE
MEASUREMENT NO3-18238 17-23 ACOUSTICS - SUBJECTIVE HEASUREMENT OF HDISE N63-18242 17-23 SEISMIC SIGNALS AND HOISE DETECTED BY UNDERGADUND SEISMOGRAPH
AFCRL-63-479 N63-18270 17-1 N63-18270 17-15 FREE FLIGHT SURFACE PRESSURE NOISE MEASUREMENTS FOR SCOUT LAUNCH YEHICLE AT SUPERSONIC SPEEDS MITH - MAYLINUM STHESS CALGAGINES -DE MARIE DE CERANICS

LITHROGONA ON TRILAND MOISTERAND BRIDG AD ADMAR.

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15

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10

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03

10

28

VARYING FREE STREAM PRESSURES AND REYNOLDS NUMBERS NASA-TN-D-1818 N63-18462 17-08	OF GLASS FIBERS, CAPACITANCE OF POLYCRYSTALLINES ASD-TR-61-436, PT. 1 N63-15065 11-18
TUNNEL DIODE DIPOLE ANTENNAFIER /ANTENNA AND AMPLIFIER/ - IMPUT IMPEDANCE, GAIN AND NOISE	LAMB WAYES IN NONDESTRUCTIVE FLAW DETECTION N63-15380 12-10
MEASUREMENTS 3000 1417 140 473 M63-18641 17-09	NUNDESTRUCTIVE TESTING OF GLASS FIBER-REINFORCED
NOISE STORM	PLASTIC MISSILE CASES WAL-TR-142-5/2-1 N63-15420 12-17
NOISE STORMS, SOLAR FLARES, AND TYPE V BURSTS AFCRL-62-1066 N63-12120 05-28	
FINE STRUCTURE OF SPECTRAL EMITTANCE OF JUPITER IN	NONDESTRUCTIVE AMALYSIS OF BRITTLE FRACTURE OF CERAMIC MATERIAL ASD-TR-61-436, PT. II N62-15545 12-18
DECAMETRIC REGION - NOISE STORMS N63-21064 21-29	POSSIBILITY OF NONDESTRUCTIVE ANALYSIS OF FUEL
NOMENCLATURE COMPUTER PROGRAM NOMENCLATURE STANDARDIZATION	ELEMENTS CONTAINING URANIUM-235 EUR-248.F
CPIA PUBL. 28 N63-22358 23-26	ULTRASONIC TECHNIQUES FOR NONDESTRUCTIVE
NOMOGRAPH NOMOGRAM FOR FORECASTING DENSITY ALTITUDE	MEASUREMENT OF RESIDUAL STRESS WADD-TR-61-42, PT. III N63-16740 14-33
AMS-TR-165 N63-11444 03-19	ULTRASONIC METHOD OF MONDESTRUCTIVE TESTING OF
COLLECTION OF GEOPHYSICAL WORKS, 1961 - ANDMALY, GRAVITATIONAL EFFECT, SEISMIC WAVE SHOCK, NOMO- GRAM, ROCK STUDIES M63-18752 17-12	CERAMIC COATINGS AND CERAMIC-METAL BONDINGS WADD-TR-61-91, PT. III N63-17117 15-17
GRAVITATIONAL EFFECTS OF TWO-DIMENSIONAL AND	BETA RADIATION METHOD OF MEASURING COATING THICKNESS - MONDESTRUCTIVE TESTING
THREE-DIMENSIONAL BODIES BOUNDED BY PLANES OF SECOND ORDER - NOMOGRAMS M63-18753 17-12	ADR-09-068-62 N63-17943 16-17
MATHEMATICAL MODELS FOR INTERPRETING GRAVITATIONAL	NONDESTRUCTIVE TESTING OF PYROLYTIC GRAPHITE MRI-228-05 N63-19213 18-17
ANOMALIES - GRAVIMETRIC PAPERS, NOMOGRAMS N63-18754 17-12	NONDESTRUCTIVE TESTING TO MEASURE THICKNESS OF FUEL ELEMENT COATINGS M63-19425 19-17
EFFECT OF METAL PROPERTIES ON HYPERVELOCITY PENETRATION - CRATER VOLUME AND STRAIN GRADIENT,	NONDESTRUCTIVE TESTING TECHNIQUES FOR LARGE SOLID
NONOGRAPHS FOR ENERGY BALANCES M63-18813 18-18	PROPELLANT ROCKET ENGINES UTC-2015-FR N63-20146 20-21
NONADIABATIC THEORY	MONELASTICITY CF ELASTICITY
NONADIABATIC MOTION OF A CHARGED PARTICLE IN AN EXTERNAL MAGNETIC FIELD	CF ELASTICITY NONELASTIC STRAIN RECOVERY IN ZINC SINGLE CRYSTALS
IPPJ-8 N63-15868 13-24	N63-12615 06-18
NONADIABATIC THEORY OF ELECTRON-HYDROGEN	NONELECTRONIC APPARATUS
SCATTERING NASA-TN-D-1702 N63-18015 16-23	MECHANICAL SYSTEMS
NONADIABATIC THEORY OF ELECTRON HYDROGEN	KW2-14-03-5 MD3-10100 14-11
SCATTERING APPLIED TO S-WAVE SCATTERING OF POSITRONS BY ATOMIC ENERGY	PRESERVATION OF FROZEN FOODS IN AEROSPACE MISSIONS - NONELECTRONIC APPARATUS
NASA-TN-0-1849 N63-18660 17-23	AHRL-TDR-63-31 N63-17492 16-16
NONDESTRUCTIVE TESTING	NONEQUILIBRIUM CF EQUILIBRIUM
CF DESTRUCTIVE TESTING CF MATERIAL TESTING X-RAY IMAGE SYSTEM FOR MONDESTRUCTIVE TESTING OF	INIZATION UPSTREAM OF STRONG SHOCK WAVE BY RADIATION FROM HOT NONEQULIBRIUM REGION
SOLID-PROPELLANT MISSILE CASE WALLS AND WELDMENTS WAL-TR-142.5/1-4 N63-10713 02-17	DOWNSTREAM OF SHOCK CH-1020 N63-12604 06-13
IN TRASONIC LANGUAGE BRODACATION MODELS FOR	EFFECTS OF AMBIENT DISSOCIATION AND SPECIES
MONDESTRUCTIVE TESTING	DIFFUSION FOR NONEQUILIBRIUM SHOCK LAYERS IAS PAPER 63-70 N63-12652 G6-11
PRESENTED BETTER BY THE PRESENT OF THE PRESENT AS A DESIGNATION OF	NONEQUILIBRIUM CENTERED EXPANSION OF DISSOCIATED
FIBERGLASS ROCKET MOTOR CASES	SUPERSONIC GAS FLOW
NRL MEMO-221 N63-12903 07-17	TO STANDARD CONTRACTOR AND
REACTOR RED - FUELS, MATERIALS SCIENCE, FUEL CELL, MONDESTRUCTIVE TESTING, PLUTONIUM RECYCLE TEST	NONEQUILIBRIUM MOLECULAR GAS RADIATION - RADIATIVE TRANSFER EQUATION SOLUTIONS IN TERMS OF ABSORPTION
REACTOR HN-75914	COEFFICIENTS & PLANCK-LIKE ENERGY DISTRIBUTIONS TR62-209A N63-14030 09-23
USE OF FORKER BOND TESTER IN DESTRUCTIVE AND	THEORETICAL PERFORMANCE FOR MAGNETOHYDRODYNAMIC
MONDESTRUCTIVE TEST ON REDUX BONDED SINGLE AND DOUBLE LAP JOINTS	GENERATOR UTILIZING NONEQUILIBRIUM IONIZATION IN PURE ALKALI METAL VAPOR SYSTEM
MRL-TH-M-2099 N63-14321 10-33	R625D94 N63-16588 14-24
NONDESTRUCTIVE TESTING OF GLASS FIBER AND	FOUNDATIONS OF NONEQUILIBRIUM STATISTICAL
SYNTHETIC RESIN COMPOSITES BY ULTRASONICS DFL-192 N63-14578 10-19	MECHANICS ARAP-49, PT. 1
ULTRASONIC METHOD FOR CERAMIC COATING EVALUATION.	FOUNDATIONS OF NONEQUILIBRIUM STATISTICAL
NONDESTRUCTIVE TESTING MADD-TR-61-91, PT. 11 M63-14877 11-19	MECHANICS ARAP-49, PT. II M63-17242 15-20
NONDESTRUCTIVE TESTING OF BRITTLE FRACTURE	NONEQUILIBRIUM ELECTRON TEMPERATURE EFFECTS IN
BEHAVIOR OF CERAMICS - MAXIMUM STRESS CALCULATION	WEAKLY IONIZED STAGNATION BOUNDARY LAYERS

.

N63-17673 16-20

	MINER DESCRIPTION DE LA CONTRACTOR DE LA
TDR-169/3230-12/TN-7 N63-17331 15-11	BRL-12031 FOR HARTYS HON HOS-19642 MG1-19-11
NONEQUILIBRIUM IONIZATION EFFECTS ON FLOW OF ARGON GAS THROUGH MAGNETIC FIELD N63-20442 20-24	NONEQUILIBRIUM FLOW OF POLYATOMIC GAS THROUGH MORNAL SHOCK WAVE ARC-CP-645 N63-20237 20-11
NONEQUILIBRIUM IONIZATION IN MAGNETOHYDRODYNAMIC GENERATORS N63-20755 21-24	NONEQUILIBRIUM AXISYMMETRIC BLUMT BODY FLOW-SHOCK MAYE CHEMICAL COUPLING BY INTEGRAL RELATIONS RIT-DSR-9126 N63-20659 20-11
VIBRATIONAL AND DISSOCIATION NONEQUILIBRIUM IN DIATOMIC GAS - SUPERSONIC AKISYMMETRIC SHOCK WAVE AIAA PAPER 63-439 N63-21164 21-11	NONEQUILIBRIUM LANIMAR BOUNDARY LAYER FLOW OF BINARY GAS MIXTURE ROSSO17 N63-20991 21-11
NONEQUILIBRIUM SURFACE POTENTIAL CALCULATIONS FOR SEMICONDUCTORS N63-21293 21-09	MAGNETOHYORODYNAMICS - NONEQUILIBRIUM IONIZATION
MAGNETOHYDRODYNAMICS - NONEQUILIBRIUM IONIZATION AND FLOW N63-22482, 23-24	AND FLOW N63-22482 23-24 SOLUTION OF NONSINILIAR, MOMEQUILIBRIUM VISCOUS FLOM EQUATIONS FOR REENTRY VEHICLE WAKES
MEQUILIBRIUM FLOW NONEQUILIBRIUM EFFECTS AND THE FLOW OF AN IDEAL DISSOCIATING GAS ABOUT A CONVEX ANGLE CORNER RAE-TRANS-1012 03-11	N63-23086 24-11 SUPERSONIC MONEQUILIBRIUM FLOW OVER A MEDGE SUDARR-160 N63-23689 24-02
BINARY SCALING FOR NONEQUILIBRIUM AIR FLOWS ABOUT BLUNT BODIES CAL-DN-1626-A-8 N63-11419 03-02	NOMEQUILIBRIUM PLASMA IONIZATION NOMEQUILIBRIUM EFFECTS ON MAGNETOGAS- OVMANIC INTERACTION IN STAGNATION REGION OF
CALCULATION ERRORS OF NONEQUILIBRIUM FLOW FIELD BY LINEARIZED METHOD OF CHARACTERISTICS	AXISYMMETRIC BLUNT BODIES CAL-AG-1547-Y-1 N63-1988 19-24
NONEQUILIBRIUM-DISSOCIATED STAGNATION POINT	NONEQUILIBRIUM PLASMA FLOW, MICROMAVE RADIATIOM, AND BACKSCATTERED RADIATIOM ASSOCIATED HITM REENTRY PHYSICS
BOUNDARY LAVERS MITH ARBITRARY SURFACE CATALYCITY - GENERAL RESEARCH ATN-63/9206/-3 05-13	GOA-63-0173 NAS-20292 20-1: MAGNETOHYDRODYNAMIC EQUATION FOR MONEQUILIBRIUM
MAGNETOHYDRODYNAMIC EFFECTS ON STAGNATION-POINT HEAT TRANSFER FROM PARTIALLY IONIZED NONEQUILIBRIUM GASES IN SUPERSONIC FLOW 1P-43 N63-12145 05-24	PLASNA FLOW N63-21558 22-24 NOWLIFTING VEHICLE STATIC STABILITY INVESTIGATION OF SUPERSONIC NOWLIFTING REENTRY VEHICLE
CHARACTERISTIC CALCULATION OF NONEQUILIBRIUM FLOW BRL-1173 08-11	NASA-MENO-3-2-59L N63-14757 11-02 NONLINEAR SYSTEM
VIBRATIONAL NONEQUILIBRIUM WITH NITROGEN IN LON- DENSITY FLOW AEDC-TDR-63-31 N63-13657 08-11	CF LINEAR SYSTEM MODE OF OPERATION OF A FLIGHT REGULATOR WITH REGARD TO THE MONLINEAR COMDUCT OF THE REGULATING MOTOR
PRESSURE MEASUREMENTS ON BLUNT FLATPLATE WITH NONEQUILIBRIUM FLOW FIELD R63S013 11-02	NORMAL MODES OF NONLINEAR COUPLED SHIP MOTIONS AND
FREE STREAM PROPERTIES OF HYPERSONIC HONEQUILIBRIUM FLOW, AND ELECTRICAL PROPERTIES OF SHOCK TUNNEL PLASMA FLOW R63-15194 11-24	NONLINEAR FILTER FOR IMPROVEMENT OF SIGNAL DETECTABLITY IN THE PRESENCE OF NON-GAUSSIAN
HONSTEADY AND HONEQUILIBRIUM TWO-PHASE FLOW PROBLEM - GAS CARRIER AND SMALL PARTICLES - SQUID PROJECT - N63-15350 12-01	NOISE AF-98 N63-10284 01-1: DISSIPATIVITY OF MONLINEAR SYSTEM OF DIFFERENTIAL EQUATIONS
ROCKET PROPULSION SYSTEM - NONEQUILIBRIUM FLOW IN ROCKET MOZZLES TDR-930/2230-06/TR-1 N63-16134 13-02	PTO-TT-62-1149/16264 N63-10350 01-20 IDENTIFICATION & MODEL CONSTRUCTION OF MONLINEAR SYSTEMS WITH TWO-LEVEL INPUTS & FINITE SETTLING TIMES N63-14070 09-20
VIBRATIONAL-MONEQUILIBRIUM FLOW OF MITROGEN IN HYPERSONIC MOZZLE MASA-TM-0-1810 M63-16745 14-11	HOWLINEAR SYSTEMS, VIBRATION - ABSTRACTS, N63-14749 11-3
NONEQUILIBRIUM FLOW FIELD BEHIND NORMAL SHOCK MAYES IN CARBON DIOXIDE MASA-TN-0-1885 N63-17344 16-07	OPTIMAL CONTROL OF LINEAR AND HONLINEAR DYNAMIC SYSTEMS 12-21
RELAKATION PROCESSES OF INVISCIO, MONEQUILIBRIUM FLOW BEHIND BOW AND NORMAL SHOCK WAVES CAL-QM-1626-A-12/1/ M69-18105 16-11	STEADY-STATE BEHAVIOR OF NONLINEAR CONTROL SYSTEM OPERATING IN LIMIT CYCLING NODE MHEN SUBJECTED TO SINUSDIDAL IMPUTS PIGMRI-1101-62 M63-16832 14-00
COMPUTER PROGRAMS FOR SOLUTION OF RELAXATION ZONE BEMIND A NORMAL SHOCK MAVE AND FOR MONEQUILIBRIUM FLOM ABOUT BLUNT BODY HYPERSONIC VENICLE CAL-ON-1626-A-12/II/	OPTIMIZATION OF NONLINEAR, TIME-VARYING DETERMINISTIC SYSTEMS R-162 H63-17091 15-2
NUMERICAL INTEGRATION OF NONEQUILIBRIUM SUPERSONIC	CONTROL AND STABILITY OF LINEAR AND MONLINEAR DATA PROCESSING SYSTEMS TER SER. 60, ISSUE 472 N63-17505 16-0
NASA-TN-D-1942 NASA-TH-03-19608 19-11 HONEQUILIBRIUM FLOW OVER A CONE - VIBRATIONAL RELAXATION EFFECTS	SYNTHESIS OF LINEAR AND NOMLINEAR CONTROL SYSTEMS BY LIAPUNOV STABILITY THEORY RM-153 H63-17673 16-2

NECESSARY CONDITION FOR OPTIMAL NONLINEAR DYNAMICAL SYSTEM	N63-18149 16-20	NONLINEAR HYPERSONIC THERMOELASTIC STABILITY AND CONTROL DERIVATIVES N63-11068 03-33
RESPONSE OF MONLINEAR SYSTEMS RANDOM MOISE	TO EXCITATION BY N63-20102 20-23	A PROBLEM IN OPTIMAL MONLIMEAR CONTROL N63-11352 03-20
FORKER-PLANCK EQUATION APPLIED DYNAMIC SYSTEMS SUBJECTED TO EX WHITE RANDOM NOISE		NONLINEAR TRAVELING AND STANDING PLASMA WAVES IN HOMOGENEOUS, IONIZED COLD STREAMS AFCRL-62-1093 M63-11456 03-12
ZERD-CROSSINGS, PEAKS AND STATE RANDOM RESPONSES OF NONLINEAR		NONLINEAR THEORY OF ELASTIC SHELLS UNDER THE KIRCHHOFF HYPOTHESIS IER SER. 131, ISSUE 17 N63-11560 04-33
EQUIVALENT LINEARIZATION TECHNISYSTEMS	IQUES FOR HOMLINEAR N63-20106 20-23	SMALL DISTURBANCE THEORY OF TRANSONIC FLOW - NONLINEAR CORRECTION THEORY
EVIDENCE FOR NONLINEARITY AND I FUTURE WORK WITH NONLINEAR SYS NASA-TN-D-1872		NAL-TR-9T N63-11907 04-03 APPROXIMATION OF UNSTEADY TRANSONIC FLOW BASED ON NONLINEAR SMALL DISTURBANCE THEORY
ADAPTIVE CONTROL SYSTEMS WITH	NONL INEAR	NAL-TR-27 N63-11910 04-03
COMPENSATORS NASA-CR-50927/A	N63-21724 22-06	NONLINEAR LANDAU DAMPING OF OSCILLATIONS IN BOUNDED PLASMA BN-301 N63-12042 05-24
FUNDAMENTALS OF NONLINEAR ACDUS	STICS N63-21817 22-23	APPROXIMATE SOLUTION TO NONLINEAR DIFFERENTIAL
NONLINEAR SYSTEMS WITH DYNAMIC REPRESENTED BY MONLINEAR DIFFER		EQUATION OF THIRD DRDER WITH BOGOLYUBOV ASYMPTOTIC METHOD NASA-TT-F-133 NASA-TT-F-133 NASA-TT-F-133
NONLINEAR CLOSED-LOOP CONTROL S	MALBELING WIN	NONLINEAR THEORY AND APPLICATION TO POWER SYSTEMS N63-12084 05-09
STATIONARY STOCHASTIC INPUTS NASA-TN-D-2061	N63-22861 23-06	NONLINEAR DISTORTION IN FREQUENCY-DEPENDENT THO- PORT SYSTEMS
NONLINEAR LANDAU DAMPING OF OSC BOUNDED ELECTRON PLASMA - PERTU NASA-CR-51825		SEL-62-093 NOS-12106 05-09 NONLINEAR THEORY OF ELASTIC SHELLS
NONLINEAR GUIDANCE SYSTEM FOR D AIAA PAPER-63-151	DESCENT TRAJECTORIES N63-23091 24-22	TUNNEL DIODE CIRCUIT ANALYSIS BY GRAPHICAL
ADAPTIVE CONTROL SYSTEM APPLIED	C-SECOMBREASAN .	ANALYSIS OF NONLINEAR DIFFERENTIAL EQUATIONS ANL-6634 05-09
R-407 ANALYZING NONLINEAR AUTOMATIC S FTD-YY-62-910/162		TMO-PARAMETER EIGENVALUE PROBLEMS IN DIFFERENTIAL EQUATIONS - REDUCTION TO ONE-PARAMETER PROBLEM INVOLVING MONLINEAR INTEGRAL EQUATION MRC-350 N63-12382 06-20
AMPLIFICATION IN PUMPED MONLINE FTD-TT-63-476/16264	AS-MINN TON	USE OF MATHEMATICAL MODEL TO DETERMINE EFFECT OF NONLINEAR YAM-INDUCED ROLLING AND SIDE MOMENTS ON
LIAPUNDY METHOD APPLIED TO CONT	TROL DESIGN FOR A	STABILITY OF A 3DMB SAD-102 N63-12607 06-02
CLASS OF MONLINEAR TIME VARYING MASA-CR-52239	M43-33480 34-00	REPRESENTATION OF MONLIMEAR PROCESSES BY DIFFERENTIAL EQUATIONS
OPTIMUM NONLINEAR CONTROL OF MU BY MATHEMATICAL ANALYSIS	17 S. AMIL 1883 THE WAYS	AFCRL-62-1137 N63-12741 06-20
NASA-CR-52226	N63-23815 24-09	MEASUREMENT OF STRAIN EMERGY FUNCTION W OF STRESS TENSOR EQUATION - NONLINEAR PHYSICAL PROPERTY JPL-TR-32-365 08-33
CF LIMEARITY MODE OF OPERATION OF A FLIGHT R REGARD TO THE NONLINEAR CONDUCT	REGULATOR WITH	NONLINEAR INTEGRAL EQUATIONS - FUNCTION THEORY TECHNIQUES IN RADIATIVE HEAT TRANSFER - CAUCHY
HOTOR NGL PAPER-37	N63-10033 01-22	KERNEL IMM-NYU-307 N63-13525 08-20
NORMAL MODES OF NOMLINEAR COUPL THEIR STABILITY IER SER. 173, ISSUE 5		DYNAMIC MONLINEAR MAVE PROPAGATION IN TONIZED MEDIA - ELECTROMAGNETIC WAVE REFLECTION AFCRL-62-969 N63-13641 08-08
MONLINEAR FILTER FOR IMPROVEMEN	T OF SIGNAL	DYNAMIC MONLINEAR WAVE PROPAGATION IN IONIZED
NOISE AF-98	N63-10284 01-15	COLD STREAM US-32 N63-13643 08-24
APPLICATION OF VARIATIONAL MOTI MONLINEAR VIBRATION ANALYSIS OF LAYERED PLATES AND SHELLS	HOMOGENEOUS AND	NONLINEARITY EFFECTS IN SEVERAL CLAMPED-CLAMPED BEAM VIBRATION PROBLEMS NASA-TH-D-1872, REV. NAS-18279 10-33
AFOSR-TN-2256	M63-10417 01-33	SUBHARMONIC SOLUTIONS OF MONLINEAR OSCILLATION
MONLINEAR FLEXURAL VIBRATIONS O AFOSR-1310	F SANDWICH PLATES	EQUATIONS DVI = 260 N6.3-14642 10-20

ID 1-33

-20

-12

-33

-03 ON -03

-24 TIC -20 MS -09

-09 -23

-09 AL. -20

-02

-20

S 33

20

80

24

33

20

ORBIT DETERMINATION AS MONLINEAR BOUNDARY VALUE PROBLEM AND QUASILINEARIZATION RM-3129-PR M63-15460 12-20	HUMAN PERFORMANCE AND TRACKING ERROR
INVESTIGATION OF RESONANT, MONLINEAR, MONPLANAR FREE SURFACE OSCILLATIONS OF FLUID NASA-TN-D-1870 12-11	CF CERANICS CF NETAL CF CASTIC MATERIAL
MONLINEAR ASPECTS OF GAS AND WAVE DYNAMICS IN SOLID PROPELLANT ROCKET ENGINES - COMBUSTION INSTABILITY 463-15592 12-26	DAMPING PROPERTIES OF MONMETALLIC MATERIALS - TABULATION AND BIBLIOGRAPHY WADD-TR-60-540 N63-10649 DZ-19
APPLICATIONS OF OPTIMUM NONLINEAR CONTROL SYSTEMS N63-15638 12-09	TESTING NONMETALLIC MATERIALS AT CRYOGENIC TEMPERATURES - FEB. 1961 TO SEPT. 1962 R-3498 N63-12069 05-19
DYNAMIC NONLINEAR ELECTROMAGNETIC WAVE PROPAGATION AND HARMONIC RADIATION IN IONOSPHERE AFCRL-63-446 N63-15741 12-24	EFFECT OF RADIATION AND NITRIC ACID-NITRATE SALT SOLUTION ON PLASTIC AND OTHER MONNETALLIC
BIBLIOGRAPHY OF MONLINEAR ORDINARY DIFFERENTIAL	100-14596 14 3 15 16 16 17 17 17 17 17 17 17 17 17 17 17 17 17
EQUATIONS SB-62-54 N63-15752 12-20	TABLE OF ATTENUATION VALUES TO FACILITATE DETERMINATION OF FERRIMAGNETIC RESONANCE LINEWIDTH
ELECTRON FOCUSING BY NONLINEAR SPIRALS - LENS - IMAGE FORMATION GEOMETRY FOR CATHODE RAY TUBES TIS-R62-ETC2 N63-16107 13-09	OF NOMMETALLIC MAGNETIC MATERIALS M69-16090 13-25 THERMOCONDUCTIVITY OF NOMMETALLIC MATERIALS
REVIEW OF NONLINEAR REACTOR DYNAMICS PROBLEMS	NONHETALLICS FOR SUPERSONIC TRANSPORT AIRCRAFT -
ACCELEROMETER - PRECISION MEASURING INSTRUMENT FOR NONLINEARITIES N63-16855 14-22	PLASTIC AND GLASS SEALS AND SEALANT FOR FUEL CONTAINMENT, MECHANICAL PUMPS AND TIRES M63-18973 18-19
ELASTIC STABILITY IN NONLINEAR BUCKLING OF CIRCULAR PLATES DUE TO RAPID HEATING OR COOLING NASA-CR-50243 15-20	EFFECT OF NUCLEAR RADIATION AND VACUUM ON PHYSICAL PROPERTIES OF NORMETALLIC MATERIALS MASA-CR-50948 N69-21066 21-23
PLANE AND CAMBERED DELTA WINGS AT TRANSONIC MACH NUMBERS - FLOW PATTERN - NONLINEAR LIFT FORCE ARC-R&M-3305 N63-18064 16-03	NONMETALLIC SPACECRAFT NATERIAL TEST PROGRAM — HIGH VACUUM, NUCLEAR RADIATION, DYNAMIC TENSILE STRENGTH & TEST MACHINES NASA-CR-5098Y N63-21070 21-19
STATIC NONLINEAR THEORY OF ELECTROMAGNETIC THERMO- ELASTIC SOLIDS N63-19426 19-25	FAMILICATION OF SPACE ERECTABLE STRUCTURES FAOM SUPERALLOYS, REFRACTORY MATERIALS, AND
NONLINEAR PROBLEMS OF FLIGHT CONTROL - STABILITY AND CONTROL	NONHETALLIC MATERIALS N65-23211 24-35
NONLINEAR INTERACTION BETWEEN OBLIQUELY INCIDENT PLANE ELECTROMAGNETIC MAVE AND ELECTRON BEAM AFCRL-63-830 N63-20675 20-24	NOMENTE EFFECT
ELECTROMAGNETIC MONLINEAR INTERACTION AND REFLECTION FROM AN ISOTROPIC, IONIZED MEDIUM	NON-OHMIC EFFECTS IN GALLIUM ARSENIDE AT LOW TEMPERATURES 463-11221 03-25
AFCRL-63-637 N63-20677 20-08 NONLINEAR ELECTROMAGNETIC HAVE PROPAGATION AND	INVESTIGATION OF RESONANT, NONLINEAR, NOMPLANAR FREE SURFACE OSCILLATIONS OF FLUID
HARMONIC RADIATION IN MAGNETOIONIC MEDIA AFCRL-63-695 N63-20678 20-24	MASA-TN-D-1870 N63-15509 12-11
NONLINEAR COUPLING GENERATOR MECHANISM FOR VERY LOW FREQUENCY PLASMA WAVES AFCRI-63-658 N63-20679 20-24	MOREPINEPHRINE NORPINEPHRINE THERMOGENESIS IN WARM AND COLD ACCLIMATIZED RATS - CARDIOVASCULAR AND METABOLIC EFFECTS
NONLINEAR PROPERTIES OF AIRPLANES AND HISSILES	AAL-TOR-62-51 N63-19057 19-16
INCLUDING CROSS COUPLING - STABILITY AND CONTROL N63-20849 21-04	NORMAL DISTRIBUTION SEQUENTIAL TESTS FOR NEAN OF NORMAL DISTRIBUTION - MIENER LEVY PROCESS DRIFT N69-12080 05-20
NONLINEAR CELLULAR SOLUTIONS FOR THERMAL CONVECTION - STABLE HEXAGONAL CELLS - BOUSSINESQ EQUATIONS	APPLICATION AND AMALYSIS OF LOGNORMAL DISTRIBUTION - QUEUEING PROBLERS AND PEAK FAILURE
WEI-WATH - 000 - 001	RATE RH-3701PR H63-20750 21-20
INTRODUCING A SMALL PARAMETER IN INVESTIGATION OF NONLINEAR OSCILLATIONS IN AUTOMATIC SYSTEMS - SOVIET DATA PROCESSING N63-21087 21-20	NORMAL SHOCK MAYE CORRESPONDENCE BETWEEN RELAXATION ZONE ALDRG STREAMLINE IN BLUNT-BODY FLON AND NORMAL SHOCK
SOLUTIONS OF NONLINEAR ACQUSTICAL PLANE WAVE EQUATIONS BY FUNCTIONAL INTERRELATIONSHIPS OF	CAL-QM-1626-A-7 N63-19112 11-11
QEPENDENT VARIABLES METHOD AMRL-TDR-63-64 N63-21333 21-23	EQUILIBRIUM GAS DYNAMICS AND PROPERTIES BENING INCIDENT AND REFLECTED MORNAL SHOCK MAYES IN SHOCK TUBE — MITROGEN AND OXYGEN
LIQUID DYNAMICS IN BOTH RIGID AND ELASTIC CONTAINERS - IMPORTANCE OF NOMLINEAR BEHAVIOR IN THE SYSTEM N63-21340 21-11	ARC-CP-626 N63-16801 14-11 MONEQUILIBRIUM FLOW FIELD BEHIND MORNAL SHOCK
NONLINEAR THEORY OF THEN ELASTIC SHELLS	MAYES IM CARBON DIOXIDE NAS-17544 16-07
IPST-CAT. 201 N63-22860 23-23	Thousand the Course of the surest admiral Laten

NAS-12208 - 04-0

SOURCE OF MONLINEARITY IN PURSUIT TRACKING -

COMPUTER PROGRAMS FOR SOLUTION OF RELAXATION ZONE BEHIND A HORMAL SHOCK MAYE AND FOR HOMEQUILIBRIUM

FLOW ABOUT BLUNT BODY HYPERSONIC VEHICLE CAL-QM-1626-A-12/II/ N63-19511 19-20	FREE FLIGHT NASA-MEMD-3-4-59E N63-14756 11-1;
NONEQUILIBRIUM FLOW OF POLYATOMIC GAS THROUGH NORMAL SHOCK WAVE ARC-CP-645 N63-20237 20-11	NOSE PRESSURE-DRAG COEFFICIENT OF TRUNCATED BODIES OF REVOLUTION IN SUPERSONIC FLOW NOLTR-62-11 N63-14827 11-02
NORMAL SHOCK WAVE CALCULATIONS IN AIR AT HYPERSONIC SPEEDS R62SD76 N63-20779 21-11	NOSE BLUNTNESS, CONE ANGLE, MACH NUMBER VARIATION, FINENESS RATIO, AND BASE SHAPE EFFECTS ON AERODYNAMIC CHARACTERISTICS OF SHORT, BLUNT COMES NASA-TH-0-1926 N63-18889 18-02
MORTH AMERICA MOVING-COORDINATE PREDICTION MODELS APPLIED TO NORTH AMERICAN CYCLONES & WEATHER FORECASTING M63-19937 19-21	NOSE CAP DESIGN AND ENVIRONMENTAL TESTS OF NOSE CAPS IN PLASMA ARC TUNNEL
TOTAL POTENTIAL-ENERGY BUDGET OF THE STRATOSPHERE OVER NORTH AMERICA DURING THE WARMING OF 1957 AFCRL-63-689 21-12	ER-1115-25 N63-23669 24-02 NOSE CONE CF ABLATION
NORTH-SEEKING GYRO ANALYSIS OF AIR SUPPORTED PENDULOUS NORTH SEEKING	LARGE SHELL STRUCTURE DESIGN PROBLEMS - SANDWICH CONSTRUCTION NOSE CONES N63-10811 02-34
GYRO GIVEN THREE-DIMENSIONAL EQUATION OF MOTION RG-TR-63-1 08-15	EFFECT OF STATIC STABILITY, PITCH DAMPING, ROLL & TRIM ANGLE ON HYPOTHETICAL NOSE CONE REENTRY VEHICLE
NORTHERN HEMISPHERE HARMONIC ANALYSIS OF MEAN FREE-AIR GRAVITATION ANOMALIES USING LEAST SQUARES METHOD - FLATTENING	CARDE-TN-1559/63 N63-17179 15-30 REENTRY WAKE OF BLUNTED HYPERSONIC NOSE CONE -
VARIATIONS IN NORTHERN AND SOUTHERN HEMISPHERES N63-12659 06-12	SOLUTION FOR NONVISCOUS LAMINAR WAKE D2-22040 N63-18717 17-02
ATLAS OF MONTHLY MEAN STRATOSPHERE CHARTS - 1955 TO 1959 - PART 2, JULY TO DEC - AVERAGE CONDITIONS OVER NORTHERN HEMISPHERE	NOSE INLET ISENTADPIC NOSE INLET PERFORMANCE AT MACH 5.6 NACA-RM-E54824 N63-13865 09-02
AF SURVEYS IN GEOPHYSICS-141 N63-13957 09-12 SEASONAL VARIATION IN HEAT BALANCE OF ATMOSPHERE OF NORTHERN HEMISPHERE - RADIATION AND CLIMATOLOGY	TOTAL-PRESSURE DISTORTION & RECOVERY OF SUPERSONIC
N63-19387 18-21	ICING COMDITIONS NACA-RM-ESTGO9 N63-20525 20-33
ENERGY TRANSFORMATION AND VERTICAL FLUX PROCESSES OVER THE NORTHERN HEMISPHERE N63-19555 19-21	NOTATION S TERNARY NOTATION
EDDY FLUX OF MATER VAPOR IN THE NORTHERN HEMISPHERE N63-19561 19-21	NOTCH EFFECTS OF RESIDUAL STRESSES ON RANDOM FATIGUE LIFE IN BENDING NOTCHED 7075-T6 ALUMINUM ALLOY
ATMOSPHERIC ACOUSTIC STRUCTURE OF SUBPOLAR NORTHERN HEMISPHERE LATITUDES - SEASONAL VARIATION ERDA-63 N63-20469 20-12	SPECIMENS ASD-TOR-62-1075 N63-14649 10-18
NORMAY ATMOSPHERIC OZONE VARIATIONS AND ADVECTIONS IN NORTHERN NORMAY N63-14543 10-12	NOTCH SENSITIVITY OF TANTALUM, NIOBIUM, MOLYBDENUM REFRACTORY METALS — IMPACT PROPERTIES, FRACTURE TOUGHNESS, CRACK PROPAGATION N63-15094 11-18
NORTON COUNTY ACHONORITE	NOTCH SENSITIVITY OF REFRACTORY METALS - NIOBIUM, TUNGSTEN, TANTALUM, MOLYBDENUM, AND MOLYBDENUM-
MICROPROBE OF RARE MINERAL IN NORTON COUNTY ACHONORITE N63-15301 12-07	TITANIUM ALLOYS ASD-TOR-62-1004 N63-15689 12-18
NOSE COMPARISON OF HEAT TRANSFER RATES TO BLUNT BODIES OF REVOLUTION & EVALUATION OF EFFECTS OF BODY-NOSE	STRAIN DISTRIBUTION ON NOTCHED SPECIMENS AT CREEP TEMPERATURE DURING LOADING ASD-TOR-62-710 N63-15838 13-18
GEOMETRY ON HEAT TRANSFER RATES NASA-TM-X-391 N63-12561 06-02	NOTCH AND SHEAR PROPERTIES OF HEAT TREATED STEEL
LOCAL HEAT TRANSFER TO BLUNT NOSES AT HIGH SUPERSONIC SPEEDS	WAL-TR-766.5/2 N63-16183 13-18 TENSION AND STRESS STRAIN DISTRIBUTION IN NOTCHED
SUPERSONIC SPEEDS NACA-RM-L57025C N63-12648 06-02	METAL ASDRI-63-361 W63-18088 16-18
AERODYNAMIC CHARACTERISTICS AT MACH 6.77 OF 9-DEG CONE, WITH AND WITHOUT SPHERICAL AFTERBODY AND NOSE BLUNTING AT ANGLES OF ATTACK TO 180-DEG	NOTCH SENSITIVITY OF REFRACTORY METALS N63-18994 18-18
NASA-TN-D-1606 N63-13562 08-02 HEAT TRANSFER IN FREE FLIGHT OM FLAT-FACED CONICAL NOSE TO MACH 14.6 NACA-RM-LS7L03 N63-13874 09-13	FATIGUE CRACK SENSITIVITY AS FUNCTION OF FATIGUE LOAD AND LOADING METHOD IN NOTCHED STEEL SHEET SPECIMENS N63-19034 18-33
DETAILED PRESSURE DISTRIBUTION AND HEAT TRANSFER RESULTS ABOUT A CIRCULAR CYLINDER AT ZERO ANGLE OF	FRACTURE RESISTANCE OF NOTCHED METAL SHEETS - VARYING DIMENSION EFFECT ON CRACK PROPAGATION N63-20084 20-18
ARL-63-14 N63-14175 09-02	NOTCH SENSITIVITY OF REFRACTORY METALS
CALCULATIONS ON LIFT GAIN OF AN AIRFOIL WITH SIMULTAMEOUS BLOWING ON TRAILING EDGE AND MOSE PROFILE DFL-189 N63-14439 10-03	NOTCH STRENGTH EFFECT OF STRESS GRADIENT AND STRESS BIAXIALITY ON
THE RESERVE AND ADDRESS OF THE PARTY OF THE	NOTCH STRENGTH OF BRITTLE AND DUCTILE MATERIALS ASD-TR-61-725 N63-15333 12-33
EFFECT OF NOSE DIAMETER AND COOLING ON BOUNDARY LAYER TRANSITION OF CONE-CYLINDRICAL AFTERBODY IN	STRAIN RATE AND TEMPERATURE EFFECTS ON FRACTURE

S 2 . 2

2

4

ARABASIA SAN-GARARA

TOUGHNESS, CRACK FORMATION, AND NOTCHED AND UNNOTCHED MILD STEE NRL-5776	L. SPECIMENS		
SUPERALLOYS FOR SUPERSONIC TRAN- OF NOTCH ACUITY ON NOTCH STRENG WASPALOY, AND 0979 ALLOY NASA-CR-50178	SPORTS - INFI TH OF REME 41 M63-16562	DEFER .	
STAINLESS STEEL NOTCH STRENGTH (TEMPERATURES - LIDAD AND STRESS (FACTOR - NICKEL ALLOY ASD-TOR-62-930	AT CRYOGENIC	0040H 07-23	
STATIC STRENGTH OF STIFFENED SHI NOTCH - TESTING OF TWO ALUMINUM	EET WITH CENT	TRAL	
COLD ROLLING AND AGING EFFECTS PROPERTIES OF BETA TITANIUM SHE	ON SHARP-NOTO ET ALLOY N63-20507	TRAV	
LOW TEMPERATURE TEMSILE & NOTCH AND STRAIN DISTRIBUTIONS, & MEL AUSTENITIC STAINLESS STEELS ARMA-TR-63-08	PROPERTIES. DING TESTS OF M63-20624	PDF (66-7)	
EFFECT OF SECTION SIZE ON BEND STRENGTH OF ALUNINUM, METHYL RE MET-1078-863-II	HACRYLATE, 1		
NOVA SA SUPERNOVA DISCOVERY, LUMINOSITY, AND SPEC NOVA URSAE MINORIS 1954	TRAL TYPE OF	16-05	
NOVA URSAE MINORIS 1956 - GALAC	TIC NOVA N63-17877	16-05	
STAR - NOVA OR SUPERNOVA	N63-17878	16-05	
	POPPARISON OF THE POPPARISON O	NOXION CITE LINE COMBRACE MAGIS	
BEHAVIOR OF TURBULENCE CAUSED B CONDENSATION IN A SUPERSONIC MI WGL PAPER-68	V WATER VAPOR NO TUNNEL NO N63-10062	IZLE	
ROLL-FORMED TUNGSTEN NOZZLE COM	PONENTS N63-10169	01-17	
HOVER PERFORMANCE OF A RAM-WING MACHINE DTMB-AERO-1015		28-27	
THRUST FROM PARTLY IONIZED MONA	TOMIC GASES	01-27	
FLOW SEPARATION IN A CONTOUR NO JPL-TR-32-317	ZZLE		
CONICAL AND CONTOURED EXPANSION HYPERVELOCITY FACILITIES CAL-112	NOZZLES IN	03-11	
GAS RECOMBINATION EFFECTS ON SU JET NOZZLE FLOM FR-012-844	PERSONIC PLA		
INVISCID AND VISCOUS HYPERSONIC FINITE RATE CHEMICAL REACTIONS AEDC-TDR-63-18	NOZZLE FLOW	WITH 04-11	
BELL-MODE VIBRATIONS OF CONICAL	MOZZLES N63-11056	04-33	
ZERO SECONDARY FLOW EJECTOR-DIF USING ANNULAR MOZZLES AEDC-TOR-62-196	1443+1 NS & X	NANCE	
DESIGN AND PERFORMANCE OF NOZZL BLOWDOWN WIND TUNNEL NAL-TR-26	ES FOR A SUP N63-11909		
			10年6年6

- TO NOTE, IN DISTRICT THE ELECTRICAL TAXABLE SHEET SHEET BASES AND SHEET SHEE		
RECOMBINATION AND CONDENSATION PAREA RATIO NOZZLES	ROCESSES IN N63-12178	HIGH 05-26
DIFFUSIVITY OF TITANIUM CARBIDE CONDUCTIVITY OF TITANIUM HITRIDE APPLICATION AI-8058	AND THERMO- FOR NOZZLE N63-12299	05-15
THRUST AND PUMPING CHARACTERISTIC EXHAUST NOZZLES AT SUBSONIC AND NACA-RM-E54H19	INM SETTEMBER	R-TYPE PEEDS
EFFECTS OF SECONDARY-AIR FLOW ON FORCE OF SUPERSONIC AIRCRAFT MACA-RM-ES4G28		
THRUST MODULATION TECHNIQUES - C THREE VARIABLE-THROAT-AREA CONVE NOZZLES	OLD FLOW TES	ITS OF SENT
NASA-TM-X-42 THERMODYNAMICS OF REFRACTORY MET BORIDES AND NITRIDES FOR USE IN REDUCTION OF PYROMETER DATA SCAT	N63-12550	06-02
-B1 8£061-E9N	N63-13549	08-15
NOZZLE WIOTH AND HOVERING STABIL EFFECT MACHINES DTMB-AERO-1047	103-13103	08-04
EFFECT OF DISSOCIATION ON EXHAUS PERFORMANCE NACA-RM-E58C25	365 40 Md12	09-26
ALE MUTAGOUNDED A TEXT OF THE PLANT OF THE PARTY OF THE P	M63-13923	09-20
SUPPRESSION OF JET NOISE FROM CO MOZZLES AND EJECTORS WITH EMPHAS FIELD ASD-TOR-62-578 YMAGMIDA ROW 200	15 ON THE N	EAR
NOZZLES	GON IN WIND N63-14312	TUNNEL 10-11
MALL COORDINATE CALCULATIONS OF NOZZLE WITH REAL-GAS EFFECTS	THAT SEASON L	10-02
HOT WATER ROCKET - EXHAUST NOZZL SERVOCONTROLS, TANKS	ES, AIR INT	AKE. 10-27
CALCULATION OF TURBULENT BOUNDAR HEAT TRANSFER IN AXISYMMETRIC NO COMPUTER PROGRAM JPL-TR-32-387	Y LAYER GRO DZZLES - DIG N63-14465	TAL 10-11
NOZZLE THROAT COOLING - EXPANSIO HIGH TEMPERATURE PLASMAS THROUGH SECTION OF A HYPERSONIC WIND TUN AEDC-TOR-63-58	M OF PRESSU CONVERGING MEL MOZZLE M63-14607	10-02
SPECTROGRAPHY IN PLASMA JET ANAL SUPERSONIC NOZZLE USING ARGON OR SC-4776/RR/	VSIS - CONT NITROGEN N63-14752	11-24
INVESTIGATION OF AIR-CODLED, PLU AREA EXHAUST NOZZLE AT HIGH TEMP NACA-RM-ESTAGT	G-TYPE, VAR PERATURE H63-14762	IABLE-
VIBRATIONAL RELAKATION IN HYPERS FERRANTI MERCURY COMPUTER SOLUTI	ONIC MOZZLE ONS N63-14830	11-02
DESIGN AND OPERATION OF HYPERSON EQUIPPED MITH ASYMMETRIC CONTOUR INJECTION-TYPE MODEL SUPPORT SYS AEDC-TOR-62-229	IC WIND TUN ED NOZZLE A TEN N63-15113	NEL 2 NO 11-10
EXITERDATEMENT BULEZEES IN SPINISHES	PERSONIC NO	zzies.
AND THE ENDING NOTE !-	N63-15330	15-11

TRANSPIRATION COOLING OF TURBULENT BOUNDARY LAVER IN AXISYMMETRIC MOZZLE BY SECONDARY INJECTION OF MELIUM AND NITROGEN PIBAL-772 N83-15686 12-24

12-26

SQ

NO

NO

71,70%		
VIBRATIONAL-NONEQUILIBRIUM FLOW HYPERSONIC NOZZLE NASA-TN-D-1010	OF NITROGEN	
OBTAINING THRUST AUGMENTATION IN		A.070A
USING GAS DYNAMIC PRINCIPLES FOR INPUT RAE-TRANS-1031		NOZZLE
1-400 NASAGED BARBON DATE OF THE PARTY OF TH	Y. 154 V. V. 154 V	6-112
MATHEMATICAL MODELS FOR DESIGN O MOZZLE AND PREDICTION OF THRUST ISENTROPIC FLOW USING IBM 1401 F NASA-CR-50411	COEFFICIENT ORTRAN PROGR	FOR
KINETICS OF HYDROGEN AIR FLOW SY OF EXHAUST NOZZLE FLOW FOR RAMJE		
HYPERTHERMAL RESEARCH FACILITY FOR TESTING AND SIMULATION OF REENTR	Y THERMAL	LATION
NASA-CR-50441	N63-19075	
OUTBOARD BLADE DUCT CLOSURE VALVI ROTOR SYSTEM - CHANGING EFFECTIVE ACCEPTABLE SINGLE-ENGINE OPERATION TCREC-TR-62-103	E NOZZLE ARE	CLE A FOR 18-27
AERODYNAMIC AND STRUCTURAL DESIGNOPERABLE UNDER SEPARATED FLOW CON	NDITIONS - B	
MODE VIBRATIONS OF CONICAL NOZZLI NASA-CR-50692	N63-19267	18-02
DIVISION OF ENGINE POWER BETWEEN	LIFT FAN AN	D JET
TCREC-TR-62-80	N63-19838	19-27
FLOW INTERFERENCE CAUSED BY SECON ADVERSE PRESSURE GRADIENT NOZZLES	NDARY INJECT	ION IN
PARAMETER INVESTIGATIONS	N63-19939	
INTEGRAL EQUATIONS FOR BOUNDARY I FLOW IN CONICAL HYPERSONIC NOZZLE	LAYER EFFECT	
PARTY AND REASONS AND ADDITIONAL PROPERTY.	N63-20014	19-02
RAMJET ENGINE BYPASS FLOW & THROW	AT DIFFUSER	NOZZLE
AEDC-TDR-63-173	N63-20132	20-23
DECAY OF NITROGEN PLASMAS IN HYPE LOW-DENSITY NOZZLE USCEC-81-101	ERSONIC FLOW	USING 21-24
SHOCK WAVE EFFECTS ON GENERATION		
HOLECULAR BEAMS FROM NOZZLE SOURCE		A BH
FORTRAN COMPUTER PROGRAM TO DESIG USING RAD MAXIMUM THRUST THEORY NASA-CR-51301	N63-21914	52,336,4
FORTRAN PROGRAM FOR DESIGN OF PUR	E EXTERNAL	AND
INTERNAL-EXTERNAL EXPANSION PLUG NASA-CR-51300	NOZZLES N63-22139	22-02
INTERACTION BETWEEN SUPERSONIC MA DIVERGENT NOZZLE AND SECONDARY FL THROUGH SIDE OPENINGS	OW INTRODUC	
ARL-63-102	M63-22195	23-02
JET NOISE REDUCTION USING CYLINDR ARC-REM-3320	N63-22388	
WIND TUNNEL FACILITIES - NOZZLE C SUSPENSION SYSTEM AND TEST INSTRU NASA-CR-51851	ALIBRATION, MENTATION N63-23012	MODEL 24-10
PHOTOELASTIC DETERMINATION OF STR BENDING OF THIN CYLINDRICAL NOZZL PRESSURE VESSELS	ESSES DUE TO ES IN SPHER N63-23596	ICAL
AXISYMMETRIC AND ANNULAR SUPERSON PROFILES NASA-CR-52188		24-02
NOTES IN THE PARTY OF THE PARTY OF THE PARTY.	DIRTERNATURE COLUMN	LUME
EXHAUST NOZZLE NOISE SUPPRESSION	PROGRAM FOR	10.54

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SUPERSONIC TRANSPORT PROPULSION SYSTEMS SO-I-II N63-23763 24-27
ACHIEVING NOISE SUPPRESSION & HIGH THRUST PERFORMANCE WITH PLUG-TYPE EXHAUST NOIZLES FOR SUPERSONIC TRANSPORTS N63-23764 24-27
SUPERSONIC WIND TUNNEL DETERMINATION OF NOZZLE HINGE-MOMENT COEFFICIENTS FOR SATURN I WITH & WITHOUT JET FLOW
NASA-TN-D-1962 N63-23786 24-02
NOZZLE EFFICIENCY EXTERNAL STREAM EFFECTS ON ISENTROPIC PLUG-TYPE NOZZLE PERFORMANCE AT MACH 2.0, 1.0, AND 1.5 NASA-MEMO-2-17-59E N63-14680 10-02
PLUG NOZZLE PROPULSION EFFICIENCY NASA-TN-D-1804 N63-16297 13-02
AERODYNAMIC AND MECHANICAL TESTS OF A MODEL VARIABLE SUPERSONIC NOZZLE ARC-CP-629 N63-17144 15-02
SOLIO PROPELLANT ROCKET ENGINES - MATERIAL TESTING FOR NOZZLE EFFICIENCY N63-17239 15-33
NOZZLE EXPANSION PATTERN VARIATIONS IN SUPERSONIC JET FLOW THROUGH CONTOURED NOZZLES UNDER OVEREXPANSION CONDITIONS STUDIED BY SCHLIEREN PHOTOS AND STATIC PRESSURES N63-12269 05-11
NOZZLE FLOW
PUMPING CHARACTERISTICS OF VARIABLE GEOMETRY EJECTORS WITH HOT AND COLD PRIMARY NOZZLE FLOW NACA-RM-E54G15 N63-12526 06-11
SONIC GAS JET LATERAL INJECTION INTO SUPERSONIC DUCT FLOW
88-316 N63-14270 10-11
NOZZLE FLOW AT LOW REYNOLDS NUMBERS - MEASUREMENT AND CALIBRATION N63-14382 10-02
NOZZLE ORIFICE FLOW AT LOW REYNOLDS NUMBERS N63-14383 10-02
PINCH EFFECT OF AN AXIAL MAGNETIC FIELD ON A CONTINUOUS FLOW OF PLASMA IN A CONVERGENT—DIVERGENT NOZZLE N63-14612 10-24
VIBRATIONAL RELAXATION IN HYPERSONIC NOZZLE FLOW - FERRANTI MERCURY COMPUTER SOLUTIONS N63-14830 11-02
ONE-DIMENSIONAL NOZZLE FLOW OF GAS-PARTICLE MIXTURES No.3-15300 12-26
LANGMUIR PROBE AND VELOCITY MEASUREMENTS IN PLASMA JET - EFFECT OF IONIZATION AND DISSOCIATION ON NOZZLE FLOW 12-24
KINETICS OF HYDROGEN AIR FLOW SYSTEM - CALCULATION OF EXHAUST NOZZLE FLOW FOR RAMJETS N63-18523 17-11
CHEMICAL REACTIONS AND PHASE CHANGES IN SUPERSONIC NOZZLE FLOW N63-18570 17-07
RATE AND RADIATIVE HEAT TRANSFER PROCESSES DURING FLOW IN DE LAVAL NOZZLES N63-18571 17-07
CHEMICAL REACTIONS IN SUPERSONIC NOZZLE FLOWS - VIBRATIONAL RELAXATION - ELECTRON-ION RECOMBINATION - SUDDEN FREEZING ANALYSIS M63-18573 17-07
CHEMICAL KINETICS IN SUPERSONIC NOZZLE FLOW N63-18574 17-07
CONDENSATION IN ROCKET NOZZLE FLOW AND HOMOGENEOUS NUCLEATION 17-07
GAS DYNAMICS OF ROCKET NOZZLE FLOW - MAGNETO-FLUID FLOW AND CROSSED AND ALIGNED FIELD FLOW STABILITY N63-18576 17-11

COMPARISON OF EXPERIMENTAL TO PREDICTED HEAT

M63-11909 04-02

TRANSFER IN BELL SHAPED NOZILE WITH UPSTREAM FLOW DISTURBANCES MASA-TR-0-1743 MAS-1898 19-139 MAS-1898 19-139 MAS-1898-19-139 MAS-1898-19-139-139-139-139-139-139-139-139-139-	sion) 5 a caus	WHITE FOR
AS PAPER-390-02 NS-10908 92-29 MOZILE GENERAL PAPER-69-390 MOZILE SAD OVAMICS — NOZILES OF VANTING LENGTHS MARCHED CAS OVAMICS — NOZILES OF VANTING LENGTHS MASCA-790-1201 NS-2018 22-02 ASYMERTIC PRISONER NOZILE IN SUPERSONIC WIND LUNGLE FOR ATTITUDE CONTROL OF MALTISTICA WHICE MASCA-77-0-1361 NS-2018 22-02 MS-2018 22-02 MS-2018 22-03 MCCIER ATTITUDE CONTROL OF A RECURY-COMPRESSON- MF OF POWERD A SIGNATURE TO STREET OF THE MASCA-79-130 NS-2018 22-03 MCCIER ATTITUDE CONTROL OF A RECURY-COMPRESSON- MF OF POWERD ASCART USING NUCLEAR PROPULSION OF MASCA-71-02-100 NS-2018 20-07 MASCA-71-02-100 NS-2018 10-07 MACCARRA TREATY MACCARRA T	DISTURBANCES	NUCLEAR ELECTRIC POWER SYSTEMS
MACERA COURTY AMERICO GAS DYMANICS - NOZZEES OF VARYING LENGTHS MOZZEE WIND CONTROL OF MACERICO AS CONTROL MOZZEE WIND CONTROL OF MACERICO AS CONTROL MOZZEE WIND CONTR	ARC DISCHARGE THROUGH SUPERSONIC GAS FLOW IN A	SAMISSIONS THE DETAILS LAND STATE HEAD STATE AND STATE OF THE STATE OF
MOZILE SCORE TO WASHING SO VARYING LEWISTS AND AMCIES OF OTVERGENCE STUDIED IN LOW DESITY WIND TUMBEL. MOS-21610 22-02 ANYWERTEL PERSHAPE ROZZLE IN SUPERSONIC WIND TUMBEL FOR ATTITUDE CONTROL OF MAILSTAGE VEHICLE MOS-21697 22-51 MOZILE SMALL WERE THICKNESS OF CHAVEO MALES OF 20-10 MOSINGAN LIVER THICKNESS OF CHAVEO MALES OF 20-10 MOSINGAN LIVER THICKNESS OF CHAVEO MALES OF 20-10 MOZILE SMALL MOS-2252 MOZILE SMALL MOS-2252 MOZILE SMALL WERE THICKNESS OF CHAVEO MALES OF 20-10 MOZILE SMALL MOS-2252 MOZILE SMALL MOSI	THE STREET AND THE ST	
ANYMETRIC PRESIDENT WORLD IN WAITSTAND WHITE THE STATE OF	NOZZLE GEOMETRY RAREFIED GAS DYNAMICS - NOZZLES OF VARYING LENGTHS AND ANGLES OF DIVERGENCE STUDIED IN LOW DENSITY	ELECTROSTATIC PROPULSION SYSTEM WITH A DIRECT
MOZILES MALE MOSPORANT LAVOR THICKHESS ON CURVED WALLS OF 20-11M SUPPRISONIC WIND TUNNEL TWO-DIMENSIONAL MOZILE MASA-CR-25252 MOCLEAR AIRCRAFT CALCULATED PERFORMANCE OF A MERCURY-COMPRESSOR- JET POWERED AIRCRAFT USING MUCLEAR REACTOR AS REACY SOURCE MACA-RH-19173 MOCLEAR POWERED SUPPRACTITICAL WATER CYCLE FOR AMACYSTS OF THREE CYCLES FOR MUCLEAR PROPULSION OF AIRCRAFT FOR THREE CYCLES FOR MUCLEAR PROPULSION OF AIRCRAFT FOR THREE CYCLES FOR MUCLEAR PROPULSION OF AIRCRAFT FORDULSION MACA-RH-19173 MOCLEAR POWERED SUPPRACTITICAL WATER CYCLE FOR AIRCRAFT FORDULSION MACA-RH-191030	ASYMMETRIC PENSHAPE NOZZLE IN SUPERSONIC WIND TUNNEL FOR ATTITUDE CONTROL OF MULTISTAGE VEHICLE.	HUCLEAR THERMIONIC SPACECRAFT POWER SUPPLY
NUCLEAR PROPERTY OF THE CYCLE S FOR NUCLEAR PROPULSION OF ARCAPH SOURCE NACA-RH-SIPIFA NAS-CRAPT USING NUCLEAR REACTOR AS BREEKY SOURCE NACA-RH-SIPIFA NAS-CRAPT USING NUCLEAR PROPULSION OF AIRCRAFT SOURCE NACA-RH-SIPIFA NAS-CRAPT USING NUCLEAR PROPULSION OF AIRCRAFT SOURCE NACA-RH-SIDIFA NACA-	Public Art VIII - Washing a sale day of a survey observed though	FREREY SPACE MISSION MAS-1770A 1A-32
HUCLEAR AIRCRAFT CALCHLATED PERFORMANCE OF A MERCURY-COMPRESSOR- SERVING SURVEY AND CARRY SELECTAL CONTROL OF RECORD SERVEY SPACE PROPULSION MACA-RACESDIFA M	BOUNDARY LAYER THICKNESS ON CURVED WALLS OF 20-IN SUPERSONIC WIND TUNNEL TWO-DIMENSIONAL NOZZLE	LUBRICATION OF TURBOPOWER SYSTEMS BEING DEVELOPED FOR SPACECRAFT NUCLEAR ELECTRIC PROPULSION AND AUXILIANY SYSTEMS
ANALYSIS OF THREE CYCLES FOR NUCLEAR PROPULSION OF AIRCRAFT AND ALCA-AR-ESON24 NGACA-AR-ESON24 NGACA-AR-ESON25 NGACA-AR-ESON29 NGACA-AR-ESON29 NGACA-AR-ESON29 NGACA-AR-ESON29 NGACA-AR-ESON29 NGACA-AR-ESON29 NGACA-AR-ESON29 NGACA-AR-ESON29 NGACIBAR SYSTEM WHAMMED SPACE EXPLORATION OF SOLAR SYSTEM WHAMMED SPACE EXPLORATION OF SOLAR SYSTEM	CALCULATED PERFORMANCE OF A MERCURY-COMPRESSOR- JET POWERED AIRCRAFT USING NUCLEAR REACTOR AS ENERGY SOURCE	NUCLEAR ELECTRIC. SOLID CORE AND GASEOUS CORE
AREARAFT MAGA-RH-S0124 NUCLEAR POWERED SUPERCRITICAL WATER CYCLE FOR AIRCRAFT PROPULSION NACA-RH-S3029 NAS-13193 NAS-		NUCLEAR-ELECTRIC PROPULSION SYSTEM USING SATURN
NUCLEAR POWERED SUPERCRITICAL WATER CYCLE FOR MICHAEL PROPRIES AND ACA-RH-E33029 N63-13193 07-27 LIQUID METAL TURBOJET ENGINE CYCLE POR MUCLEAR AIRCRAFT NACA-RH-E31039 N63-1396 16-27 NUCLEAR DIRECT-AIR-CYCLE SUPERSONIC AIRCRAFT DESIGN STODY - EFFECT OF TEMPERATURE AND FUEL PLATE HATERIAL NACA-RH-E31039 N63-10-20 17-04 MARCHAR PARTERIAL NACA-RH-E35029 N63-1978 18-03 MARCHAR COMPAGNIC CHRARCTERISTICS OF ELESTIC CHRARD PUSHED AIRPLANE IN AIR AND FREDWILL AT MACH NUMBER 19 TO 0-92 NASA-TH-D-1792 AT MACH NUMBER SUP TO 0-92 NASA-TH-D-1792 AND NUCLEAR CHRAISTRY OF MOLTEAR POWERED WINDOWS NAS-1937 10-23 NASA-TH-D-1792 AND NUCLEAR SHIP, SAVANNAH NORH-3-17 N63-1541 13-07 NG-15841 13-07 NG-15851 N	AIRCRAFT	OF SOLAR SYSTEM
LIQUID METAL TURBOJET ENGINE CYCLE FOR NUCLEAR AIRCRAFT NACA-RR-E5JD30 N63-17980 16-27 NUCLEAR DIRECT-AIR-CYCLE SUPERSONIC AIRCRAFT DESIGN STUDY - EFFECT OF TEMPERATURE AND FUEL ARRODYMANIC CHARACTERISTICS OF ELASTIC CAMARD FUSELAGE CONFIGURATION OF MUCLEAR POLYRERS UP TO 0.3 ARRODYMANIC CHARACTERISTICS OF ELASTIC CAMARD FUSELAGE CONFIGURATION OF MUCLEAR POLYRERS UP TO 0.3 NUCLEAR CHEMISTRY CF REACTOR CHEMISTRY CF REACTOR CHEMISTRY OCHPUTER RETHODS FOR NUCLEAR AND RADIOCHEMISTRY NAS-NS-310 NUCLEAR CHEMISTRY RESEARCH - ANNUAL REPORT URTL-10624 NUCLEAR REACTOR CHEMISTRY NOS-16930 19-07 NUCLEAR CHEMISTRY RESEARCH - ANNUAL REPORT URTL-10624 NOS-10379 15-07 NUCLEAR CHEMISTRY RESEARCH - ANNUAL REPORT URTL-10624 NOS-1039 10-07 NUCLEAR REACTOR CHEMISTRY NOS-1039 11-07 NUCLEAR REACTOR CHEMISTRY NOS-10530 11-07 NUCLEAR REACTOR CHEMI	NUCLEAR POWERED SUPERCRITICAL WATER CYCLE FOR AIRCRAFT PROPULSION	NUCLEAR ENERGY CF ATOMIC ENERGY
ARCHAPT HACA-PR-ESIDSQ NUCLEAR DIRECT-AIR-CYCLE SUPERSONIC AIRCRAFT DESIGN STUDY - EFFECT OF TEMPERATURE AND FUEL PLATE MATERIAL ARRODYNAMIC CHARACTERISTICS OF ELASTIC CAMAND FUSELAGE CONFIGURATION OF MUCLEAR POWERED AIRPLANE IN AIR AND FREDN-12 AT MACH MUSCEAR POWERED AIRPLANE IN AIR AND FREDN-12 AT MACH MUSCEAR POWERED AIRPLANE IN AIR AND FREDN-12 AT MACH MUSCEAR SUP TO 0.9 NOCLEAR CHENISTRY CF REACTOR CHEMISTRY CF REACTOR CHEMISTAY CHEMISTRY OF MOLTEAN AND MOS-1941 12-07 COMPUTER METHODS FOR NUCLEAR AND RADIOCHEMISTRY MAS-NS-3107 NUCLEAR REACTOR CHEMISTRY ROS-15841 13-07 NUCLEAR REACTOR CHEMISTRY RESEARCH - ANNUAL REPORT URL-10624 NOS-15841 13-07 NUCLEAR REACTOR CHEMISTRY ROS-15851 13-07 NUCLEAR REACTOR CHEMISTRY MOS-15841 13-07 NUCLEAR REACTOR AND NUCLEAR AND RADIOCHEMISTRY MOS-15841 13-07 NUCLEAR REACTOR CHEMISTRY MOS-15841 13-07 NUCLEAR REACTOR CHEMISTRY MOS-15841 13-07 NUCLEAR REACTOR CHEMISTRY MOS-15841 13-07 NUCLEAR REACTOR REACTOR AND RADIOCHEMISTRY MOS-15841 13-07 NUCLEAR REACTOR CHEMISTRY MOS-15841 13-07 NUCLEAR REACTOR CHEMISTRY MOS-15841 13-07 NUCLEAR REACTOR MOS FOR NUCLEAR AND RADIOCHEMISTRY MOS-15841 13-07 NUCLEAR REACTOR CHEMISTRY MOS-15841 13-07 NUCLEAR REACTOR REACTOR AND RADIOCHEMISTRY MOS-15841 13-07 NUCLEAR REACTOR MOS-1079 15-07 NUCLEAR MERCH MOS FOR PRODUCTION OF HYDRAZINE BY FISSIOCHEMISTRY MOS-15841 13-07 NOS-1079 15-07 NUCLEAR REACTOR REACTOR AND RADIOCHEMISTRY MOS-15841 13-07 NUCLEAR REACTOR CHEMISTRY MOS-15841 13-07 NUCLEAR REACTOR CHEMISTRY MOS-15841 13-07 NUCLEAR REACTOR CHEMISTRY MOS-15841 13-07 NOS-1079 15-07 NUCLEAR REACTOR CHEMISTRY MOS-15841 13-07 NOS-1079 15-07 NUCLEAR REACTOR CHEMISTRY MOS-1079 15-07 NOS-1079 17-07 NOCLEAR REACTOR CHEMISTRY MOS-1079 1	MACA-RM-E33029	BEAM IN HEAVY CONCRETE
NUCLEAR DIRECT—AIR—CYCLE SUPERSONIC AIRCRAFT DESIGN STUDY — EFFECT OF TEMPERATURE AND FUEL PLATE MATERIAL PLATE MATERIAL M63-1645 17-04 AREODYMANIC CHARACTERISTICS OF ELASTIC CAMAND FUSELAGE CONFIGURATION OF NUCLEAR POMERGE DAIRPLANE IN AIR AND FREDM-12 AT MACH NUMBERS UP TO 0.92 MASA-TH-D-1792 M03-19170 18-03 MCCLEAR CHEMISTRY CF REACTOR CHEMISTRY CF REACTOR CHEMISTRY CHEMISTRY OF MOITEN-SALT, AQUEOUS, AND SOLID- FUELED NUCLEAR REACTORS AND NUCLEAR SHIP, SAYANNAH ORNI-3417 MS3-1937 12-07 MCCLEAR CHEMISTRY MAS-MS-3107 MCCLEAR CHEMISTRY RESEARCH — ANNUAL REPORT URL-10624 MS3-15841 13-07 MCCLEAR CHEMISTRY RESEARCH — ANNUAL REPORT URL-10624 MS3-15851 18-07 MCCLEAR CHEMISTRY RESEARCH — ANNUAL REPORT URL-10624 MS3-15801 MS3-15801 18-07 MCCLEAR CHEMISTRY AND GEOCHEMISTRY RO3-17379 15-07 MCCLEAR CHEMISTRY AND GEOCHEMISTRY RO3-18386 17-07 MCCLEAR CHEMISTRY AND GEOCHEMISTRY RO3-18381 18-07 MCCLEAR CHEMISTRY MAS-19391 18-03 MCCLEAR CHEMISTRY MAS-19391 18	AIRCRAFT	CHEMICAL, SOLAR, NUCLEAR ENERGY - THERMOELECTRIC &
PLATE MATERIAL NACA-RHE-S3C18 NAGA-10-45 17-04 AERODYNAMIC CHARACTERISTICS OF ELASTIC CAMARD FUSELAGE CONFIGURATION OF MUCLEAR POWERED AIRPLANE IN AIR AND FREOM-12 AT MACH NUMBERS UP 10 0.92 MASA-TH-D-1792 AT MACH NUMBERS UP 10 0.92 MACH SAMPLIFY UP 1-AS MACH OF MACH NUMBERS UP 10 0.92 MACH SAMPLIFY UP 1-AS MACH SAMPLIFY UP 1-AS MACH STREAM STABLLITY IN MASA-12530 10-01 MACH SAMPLIFY UP 1-AS MACH STREAM STABLLITY IN MASA-12530 10-01 MACH SAMPLIFY UP 1-AS MACH STREAM STABLLITY IN MASA-12530 10-01 MACH SAMPLIFY UP 1-AS MACH STREAM STABLLITY IN MASA-12530 10-01 MACH SAMPLIFY IN MASA-1250 MASA-1250 NASA-1250 NASA		POLYMERIC & COMPOSITE MATERIALS - ABSTRACTS
ABRODYMANIC CHARACTERISTICS OF ELASTIC CAMADD FUSELAGE COMFIGURATION OF NUCLEAR POMERED AIRPLANE IN AIR AND FREON-12 AT MACH NUMBERS UP TO 0.92 MAGA-THO-1792 MOS-19178 18-03 MUCLEAR CHEMISTRY CF REACTOR CHEMISTRY COMPUTER METHODS FOR NUCLEAR AND RADIOCHEMISTRY MAS-AS-3107 MUCLEAR CHEMISTRY RESEARCH — ANNUAL REPORT UCRL-10624 MUCLEAR REACTOR CHEMISTRY IDD-14605 MUCLEAR REACTOR CHEMISTRY IDD-14605 MUCLEAR CHEMISTRY AND GEOCHEMISTRY RED — MEUTRON CHARGE, URANIUM-238 FISSION YELD, RADIUM-226 IN MAGNAGAMES TUFA, AND FISSION PRODUCED ZIRCONIUM MAGNAGAMES TUFA, AND FISSION PRODUCTION OF HYDRAZIME BY FISSIOCHEMISTRY MAGNAGAME MA	PLATE HATERIAL	CAUDAGESONS AN GEORGE BASES MOS-527
NUCLEAR CHEMISTRY CF REACTOR CHEMISTRY NO3-13541 CF REACTOR CHEMISTRY NO3-13541 CF REACTOR CHEMISTRY NO3-13541 CF REACTOR CHEMISTRY NO3-16538 CF REACTOR CHEMISTRY NO3-16538 CF REACTOR CHEMISTRY NO3-16538 CF REACTOR CHEMISTRY NO3-1605 NO3-160	FUSELAGE CONFIGURATION OF NUCLEAR POWERED AIRPLANE IN AIR AND FREON-12 AT MACH NUMBERS UP TO 0.92	RESONANCE N63-14337 10-23 FLIGHT VEHICLE POWER & MATERIALS - CHEMICAL, SOLAR
CHEMISTRY OF MOLTEN-SALT, AQUEOUS, AND SOL ID- FUELED NUCLEAR REACTORS AND NUCLEAR SHIP, SAVANNAH ORNL-3417 COMPUTER METHODS FOR NUCLEAR AND RADIOCHEMISTRY NAS-NS-3107 NUCLEAR CHEMISTRY RESEARCH - ANNUAL REPORT UCRL-10624 NOS-16380 NOS-17379 NOS-17	NUCLEAR CHEMISTRY	POLYMERIC & COMPOSITE MATERIALS TDR-930/2701-01/TN-1/TIPT 1-45
COMPUTER METHODS FOR NUCLEAR AND RADIOCHEMISTRY NAS-NS-3107 MUCLEAR CHEMISTRY RESEARCH - ANNUAL REPORT UCRL-10624 MUCLEAR REACTOR CHEMISTRY N63-16538 14-07 MADIO AND NUCLEAR ANALYTICAL CHEMISTRY N63-18014 16-07 MUCLEAR CHEMISTRY AND GEOCHEMISTRY RED - NEUTRON CHARGE URANIUM-238 FISSION VIELD, RADIUM-226 IN MANGAMESE TUFA, AND FISSION PRODUCED ZIRCONIUM N63-18386 17-07 X-RAY ABSORPTION SPECTRUM FOR MUCLEAR CHEMICAL AMALYSIS EUR-270.E IN-REACTOR LOOP FOR PRODUCTION OF HYDRAZINE BY FISSIOCHEMISTRY AGN-AN-1013 N63-20519 20-07 MUCLEAR, RADIATION, ORGANIC, ELECTRO-PHYSICAL, & MATER CHEMISTRY OR MICLEAR, RADIATION, ORGANIC, ELECTRO-PHYSICAL, & MATER CHEMISTRY OR MICLEAR EMERGY POWERS OF SHIELDING MUCLEAR EMERGY PLANTS EUR-233.1 MUCLEAR, RADIATION, ORGANIC, ELECTRO-PHYSICAL, & MATER CHEMISTRY OR MICLEAR EMERGY PLANTS EUR-233.1 MUCLEAR REACTOR, RADIACIONE NASTE NASTE SELVANT NAS-15708 12-01 MUCLEAR REACTOR, RADIACIONE NASTE NASTE SELVANT NAS-15708 12-01 MUCLEAR REACTOR, RADIACIONE NASTE NASTE SELVANT NAS-15707 12-03 MUCLEAR EMERGY FOR CIVILIAM APPLICATION PREACTOR NATERIALS, RADIACIONET NESTON NAS-16365 13-26 MUCLEAR EMERGY FOR CIVILIAM APPLICATION OF NUCLEAR EMERGY FOR CIVILIAM APPLICATION OF NUCLEAR EMERGY FOR CIVILIAM APPLICATION OF NUCLEAR EMERGY PLANTS NAS-16376 13-26 MUCLEAR EMERGY FOR CIVILIAM APPLICATION OF NAS-16376 13-26 MUCLEAR EMERGY FOR CIVILIAM APPLICATION OF NAS-16376 13-26 MUCLEAR EMERGY FOR CIVILIAM APPLICATION OF NAS-1636 13-26 MUCLEAR EMERGY FOR CIVILIAM APPLICATION OF NAS-16376 13-26 MUCLEAR EMERGY FOR	CHEMISTRY OF MOLTEN-SALT, AQUEOUS, AND SOLID- FUELED NUCLEAR REACTORS AND NUCLEAR SHIP, SAVANNAH	MAGNETOHYDRODYNAMICS - PLASMA STABILITY IN MAGNETIC FIELDS, THERMONUCLEAR ENERGY HARNESSING
MUCLEAR CHEMISTRY RESEARCH - ANNUAL REPORT UCRI-10624 NOS-16538 14-07 NUCLEAR REACTOR CHEMISTRY N63-15768 12-01 NUCLEAR REACTOR CHEMISTRY N63-15799 15-07 RADIO AND NUCLEAR ANALYTICAL CHEMISTRY N63-15014 16-07 NUCLEAR CHEMISTRY AND GEOCHEMISTRY RED - NEUTRON CHARGE, URANIUM-238 FISSION YIELD, RADIUM-226 IN MANGANESE TUFA, AND FISSION PRODUCED ZIRCONIUM N63-18386 17-07 X-RAY ABSORPTION SPECTRUM FOR NUCLEAR CHEMICAL AMALYSIS EUR-270.E NUCLEAR, RADIATION, ORGANIC, ELECTRO-PHYSICAL, & MATER CHEMISTRY AND MOS-20643 20-26 NUCLEAR, RADIATION, ORGANIC, ELECTRO-PHYSICAL, & MATER CHEMISTRY AND MOS-23567 24-07 NUCLEAR-ELECTRIC PROPULSION NUCLEAR-ELECTRIC SPACECRAFT FOR UMMANMED SPACE EXPLOSION NUCLEAR EXPLOSION NOCLEAR REACTOR, RADIOACTIVE MASTE MAS-1570B 12-01 SPHERICAL NUCLEI MITH SIMPLE RESIDUAL FORCES - MAS-1570B 12-01 NUCLEAR ENERGY FOR CIVILIAN APPLICATIONS, ENERGY LEVELS, MASS NUMBERS, BETA DECAY NUCLEAR ENERGY FOR CIVILIAN APPLICATION OF NUCLEAR SHELL NODEL TO CALCULATION OF EMERCIES OF GROUND STATES AND EXCITED STATES OF NUCLEAR ENERGY PLANTS NOS-1570B 13-26 CIVILIAN APPLICATIONS OF NUCLEAR ENERGY PRACTOR MATERIALS & FUEL TESTING BHI-1642/0EL./ MAS-22622 23-23 NUCLEAR-ELECTRIC PROPULSION NUCLEAR-ELECTRIC SPACECRAFT FOR UMMANNED SPACE EXPLOSION SA SEDAM PROJECT SPHERICAL NUCLEAR REACTOR, RADIOACTIVE MASTE MAS-1570B 12-01 NUCLEAR ENERGY FOR CIVILIAN APPLICATIONS, ENERGY LEVELS, MASS-100-07 NUCLEAR ENERGY FOR CIVILIAN APPLICATIONS OF NUCLEAR ENERGY PROJECT SPHERICAL NUCLEAR REACTOR, RADIOACTIVE MASTE MAS-1570B 12-01 NUCLEAR ENERGY FOR CIVILIAN APPLICATIONS, ENERGY LEVELS, MASS-100-07 NUCLEAR ENERGY FOR CIVILIAN APPLICATIONS, ENERGY LEVELS, MASS-100-07 NOS-100-07 NOS-100-0	COMPUTER METHODS FOR NUCLEAR AND RADIOCHEMISTRY	William Control of the Control of th
HUCLEAR REACTOR CHEMISTRY TID-7641 RADIO AND NUCLEAR ANALYTICAL CHEMISTRY 100-14605 NOS-18014 NOLEAR ENERGY FOR CIVILIAN APPLICATION - REACTOR NATERIALS, RADIOACTIVE ISOTOPES NOTICE NATERIALS, RADIOACTIVE ISOTOPES NOS-18014	NUCLEAR CHEMISTRY RESEARCH - ANNUAL REPORT	MEDICINE, PHYSICAL SCIENCES, ENVIRONMENTAL SCIENCE, NUCLEAR REACTOR, RADIOACTIVE WASTE
NUCLEAR AMALYTICAL CHEMISTY IDO-14605 N63-18014 IDO-14605 NUCLEAR CHEMISTRY AND GEOCHEMISTRY RED - NEUTRON CHARGE, URANIUM-238 FISSION YIELD, RADIUM-226 IN MANGANESE TUFA, AND FISSION PRODUCED ZIRCONIUM R63-18386 IT-07 X-RAY ABSORPTION SPECTRUM FOR NUCLEAR CHEMICAL AMALYSIS EUR-270.E IN-REACTOR LOOP FOR PRODUCTION OF HYDRAZINE BY FISSIOCHEMISTRY AGN-AN-1013 N63-20643 NOCLEAR, RADIATION, ORGANIC, ELECTRO-PMYSICAL, & WATER CHEMISTRY ORNI-3488 N63-23567 N63-23567 NOCLEAR-ELECTRIC PROPULSION NUCLEAR-ELECTRIC SPACECRAFT FOR UNMANNED SPACE EXPLORATION NCLEAR-ELECTRIC SPACECRAFT FOR UNMANNED SPACE EXPLORATION NOCLEAR ENERGY FOR CIVILIAN APPLICATION - REACTOR MATERIALS, RADIOACTIVE ISOTOPES BR1-1619/DEL-/ N63-15965 NA-2-3566 APPLICATION OF NUCLEAR SHELL HODEL TO CALCULATION OF ENERGIES OF GROUND STATES AND EXCIPCT NUCLEI APPLICATION OF NUCLEAR SHELL HODEL TO CALCULATION OF ENERGIES OF GROUND STATES AND EXCIPCT NUCLEI APPLICATION OF NUCLEAR SHELL HODEL TO CALCULATION OF ENERGIES OF GROUND STATES AND EXCIPCT NUCLEI APPLICATION OF NUCLEAR SHELL HODEL TO CALCULATION OF ENERGIES OF GROUND STATES AND EXCIPCT NUCLEI APPLICATION OF NUCLEAR SHELL HODEL TO CALCULATION OF ENERGIES OF GROUND STATES AND EXCIPCT NUCLEI APPLICATION OF NUCLEAR SHELL HODEL TO CALCULATION OF ENERGIES OF GROUND STATES AND EXCIPCT NUCLEI APPLICATION OF NUCLEAR SHELL HODEL TO CALCULATION OF ENERGIES OF GROUND STATES AND EXCIPCT NUCLEI APPLICATION OF NUCLEAR SHELL HODEL TO CALCULATION OF ENERGIES OF GROUND STATES AND EXCIPCT NUCLEI APPLICATION OF NUCLEAR SHELL HODEL TO CALCULATION OF ENERGIES OF GROUND STATES AND EXCIPCT NUCLEI APPLICATION OF NUCLEAR SHELL HODEL TO CALCULATION OF ENERGIES OF GROUND STATES AND EXCIPCT NUCLEI APPLICATION OF NUCLEAR SHELL HODEL TO CALCULATION OF ENERGIES OF GROUND STATES AND EXCIPCT NUCLEI APPLICATION OF NUCLEAR SHELL HODEL TO CALCULATION OF ENERGIES OF GROUND STATES AND E	NUCLEAR REACTOR CHEMISTRY TID-7641 N63-17379 15-07	SPHERICAL NUCLEI WITH SIMPLE RESIDUAL FORCES - HAMILTONIAN & WAVE FUNCTIONS, ENERGY LEVELS, MASS
NUCLEAR CHEMISTRY AND GEOCHEMISTRY RED - NEUTRON CHARGE, URANIUM-238 FISSION YIELD, RADIUM-226 IN MANGANESE TUFA, AND FISSION PRODUCED ZIRCONTUM N63-18386 17-07 X-RAY ABSORPTION SPECTRUM FOR MUCLEAR CHEMICAL AMALYSIS EUR-270.E N63-20519 20-07 IN-REACTOR LOOP FOR PRODUCTION OF HYDRAZINE BY FISSIOCHEMISTRY AGN-AN-1013 N63-20643 20-26 MUCLEAR, RADIATION, ORGANIC, ELECTRO-PHYSICAL, & MATER CHEMISTRY ORNL-3488 N63-23567, 24-07 MUCLEAR-ELECTRIC PROPULSION NUCLEAR-ELECTRIC SPACECRAFT FOR UNMANNED SPACE EXPLORATION SA GNOME PROJECT N63-22810 23-23 MUCLEAR-ELECTRIC SPACECRAFT FOR UNMANNED SPACE EXPLORATION SA GNOME PROJECT SA SEDAN PROJECT NOCLEAR EXPLOSION SA GNOME PROJECT SA SEDAN PROJECT	RADIO AND NUCLEAR ANALYTICAL CHEMISTRY	- The Control of the
X-RAY ABSORPTION SPECTRUM FOR NUCLEAR CHEMICAL ANALYSIS EUR-270.E IM-REACTOR LOOP FOR PRODUCTION OF HYDRAZINE BY FISSIOCHEMISTRY AGN-AN-1013 NG3-20643	CHARGE, URANIUM-238 FISSION YIELD, RADIUM-226 IN	BAI-1619/DEL./ AGAZINA NEVER N63-15985 13-26
X-RAY ABSORPTION SPECTRUM FOR MUCLEAR CHEMICAL AMALYSIS EUR-270.E IN-REACTOR LOOP FOR PRODUCTION OF HYDRAZINE BY FISSIOCHEMISTRY AGN-AN-1013 N63-20643 MUCLEAR, RADIATION, ORGANIC, ELECTRO-PHYSICAL, & MATER CHEMISTRY ORNL-3488 N63-23567, 24-07 MUCLEAR-ELECTRIC PROPULSION NUCLEAR-ELECTRIC SPACECRAFT FOR UNMANNED SPACE EXPLORATION MOCLEAR-ELECTRIC SPACECRAFT FOR UNMANNED SPACE EXPLORATION MOCLEAR-ELECTRIC SPACECRAFT FOR UNMANNED SPACE EXPLORATION MOCLEAR-ELECTRIC SPACECRAFT FOR UNMANNED SPACE EXPLORATION SA GROME PROJECT SA SEDAN PROJECT	MANGANESE TUFA, AND FISSION PRODUCED ZIRCONIUM	OF ENERGIES OF GROUND STATES AND EXCITED STATES OF
IN-REACTOR LOOP FOR PRODUCTION OF HYDRAZINE BY FISSIOGHEMISTRY AGN-AN-1013 N63-20643 20-26 MUCLEAR, RADIATION, ORGANIC, ELECTRO-PHYSICAL, & MATER CHEMISTRY ORML-3488 N63-23567 24-07 NUCLEAR-ELECTRIC PROPULSION NUCLEAR-ELECTRIC SPACECRAFT FOR UNMANNED SPACE EXPLORATION SA GROME PROJECT N63-20519 20-07 PROBLEMS OF SHIELDING NUCLEAR EMERGY PLANTS EUR-233.1 CIVILIAN APPLICATIONS OF NUCLEAR ENERGY - REACTOR MATERIALS & FUEL TESTING BMI-1642/OEL./ N63-22622 23-23 N09-23567 24-07 NUCLEAR-ELECTRIC PROPULSION NUCLEAR-ELECTRIC SPACECRAFT FOR UNMANNED SPACE EXPLORATION SA GROME PROJECT SA SEDAN PROJECT	ANALYSIS	ARL-63-61
FISSIOCHEMISTRY AGN-AN-1013 N63-20643 20-26 MUCLEAR, RADIATION, ORGANIC, ELECTRO-PHYSICAL, & MATER CHEMISTRY ORMI-3488 N63-23567 24-07 MUCLEAR-ELECTRIC PROPULSION NUCLEAR-ELECTRIC SPACECRAFT FOR UNMANNED SPACE EXPLORATION MOCLEAR-ELECTRIC SPACECRAFT FOR UNMANNED SPACE EXPLORATION MOCLEAR EXPLOSION SA GROME PROJECT SA SEDAN PROJECT	EUR-270.E N63-20519 20-07	PROBLEMS OF SHIELDING NUCLEAR ENERGY PLANTS
NUCLEAR-ELECTRIC PROPULSION NUCLEAR-ELECTRIC SPACECRAFT FOR UNMANNED SPACE EXPLORATION NUCLEAR-ELECTRIC SPACECRAFT FOR UNMANNED SPACE EXPLORATION NOCLEAR-ELECTRIC SPACECRAFT FOR UNMANNED SPACE EXPLORATION NOCLEAR-ELECTRIC SPACECRAFT FOR UNMANNED SPACE EXPLORATION SA GNOME PROJECT SA SEDAN PROJECT	FISSIOCHEMISTRY	CIVILIAN APPLICATIONS OF NUCLEAR ENERGY - REACTOR
NUCLEAR-ELECTRIC PROPULSION NUCLEAR-ELECTRIC SPACECRAFT FOR UNMANNED SPACE EXPLORATION SA GNOME PROJECT SA SEDAN PROJECT SA SEDAN PROJECT	MATER CHEMISTRY ANDTUM GRADS TO AN MATER THE STATE OF THE	BOSON LEVELS AND COMPOSITE MODEL OF INNER NUCLEAR FORCES
SA GHOME PROJECT ADMANDED TO THE STATE OF TH	MUCLEAR-ELECTRIC PROPULSION	ELSEN - AND ALL AND THE BOY OF TH
	EXPLORATION	SA SHORE PROJECT PROPASED PROGRAM TROPERSHOUNDED

HU

13

MI

90 03 45

3

			31
SA STAR FISH PROJECT SPACE, EMERGY AND TIME D GROUND-AIR INTERFACE CAL CODE NHM	ISTRIBUTION OF NEUTRONS AT	IGNITION OF CELLULOSE FUELS BY VERY BRIEF PUL OF RADIANT ENERGY - EFFECTS OF NUCLEAR EXPLOS USNRDL-TR-660 M63-20506	
LA-2390, SUPPL.	N63-14568 10-23	HYDROMAGNETIC WAVES GENERATED BY NUCLEAR EXPL AT HIGH ALTITUDE	OSION
EARTH MOTIONS DUE TO UND	ENT OF INTERMEDIATE RANGE ERGROUND NUCLEAR EXPLOSION	NASA-RP-17 N63-21483	22-23
IN HALITE BED	M63-14620 10-12	TRAPPED PARTICLES FROM HIGH ALTITUDE NUCLEAR EXPLOSIONS	10
ARTIFICIAL RADIATION BEL NUCLEAR EXPLOSION OVER J	T FORMED BY HIGH ALTITUDE OHNSON ISLAND	NASA-RP-40 N63-23794 NUCLEAR FUEL	
NASA-TN-0-1687	N63-14714 10-28	CF FUEL ELEMENT CF REACTOR FUEL	AM.
FAST ELECTROMAGNETIC SIG EXPLOSIONS IN TROPOSPHER LA-2808		HIGH-TEMPERATURE MATERIALS PROGRAM - OXIDATIO RESISTANT FUEL, REACTORS, RADIATION EFFECTS GEMP-17A N63-10103	01-18
UNDERGROUND EFFECTS OF N	UCLEAR DETONATION - PROTECTIVE STRUCTURES -	METALLIC FUEL ELEMENT MATERIALS APEX-913 N63-10157	01-18
DASA-1357/1/		NUCLEAR SUPERHEAT PROJECT GEAP-4024 N63-11979	05-23
IONOSPHERIC EFFECTS OF LI DETONATIONS RPU-S-10		NITRIDATION RATES OF URANIUM-FISSIUM ALLOYS	05-07
ATMOSPHERIC CONTAMINATION NUCLEAR EXPLOSIONS UP TO AEET/AM/27	N AND RADIATION DOSE FROM APRIL 1962 N63-16040 13-16	CHEMICAL ANALYSIS - NUCLEAR FUELS - NUCLEAR REACTOR - X-RAY FLUORESCENCE - SPECTROPHOTOME	TRY 06-07
DIGITAL FILTER AND APPLIE DETECTION AND DISCRIMINA	TION - NUCLEAR EXPLOSION	CONTROL PROGRAM FOR ANALYSIS OF NUCLEAR FUEL	06-07
AFCRL-63-604	N63-16458 14-12	HIGH TEMPERATURE IRRADIATION TEST OF URANIUM	
ATMOSPHERIC DENSITY ON SO	DUND PROPAGATION -	DIOXIDE CERMET FUELS BMI-1608 N63-12687	06-26
NUCLEAR EXPLOSION DETECT	N63-16518 14-12	HIGH TEMPERATURE SENSORS FOR MEASURING NUCLEAR REACTOR FUEL AND COOLANT SYSTEMS	R
EXPLOSIONS - EFFECTS OF		ANL-6636 N63-12935	07-15
STRUCTURAL DYNAMICS AIR CONDUCTIVITY PRODUCED BY NUCL	N63-16607 14-11	NUCLEAR REACTORS - FUEL, CALORIMETRY, REACTOR SAFETY ANL-6996 N63-13024	07-07
RM-3671-PR	N63-17224 15-24	URANIA-NEODYMIA COMPOSITIONS FOR NUCLEAR FUEL	PIA - CO
GROUND WAVE PROPAGATION I EXPLOSION AT SURFACE	FROM NUCLEAR WEAPON		07-18
DASA-1357/1V/	N63-17321 15-23	IRRADIATION OF ALUMINUM OXIDE COATED URANIUM FUEL	OXIDE
MUCLEAR WEAPONS - HUGONIC SHOCK WAVE PROPAGATION	DT EQUATION OF STATE FOR N63-17322 15-23	BN1-1613 N63-13208	07-23
NUCLEAR WEAPONS - EQUATION PRESSURE BY STATISTICS	DN DF STATE AT HIGH N63-17323 15-23	NUCLEAR FUELS AND MATERIALS DEVELOPMENT - REA EFFICIENCY, OUTPUT AND LIFE, DESIGN TID-11295 /2ND ED./ N63-13693	08-01
NUCLEAR WEAPONS - WAVE ES	QUATIONS FOR HALF-SPACE N63-17324 15-23	REACTOR FUEL ELEMENT OF URANIUM OXIDE	DH NAT
SOLID HALF-SPACE SUBJECTE		THEORETICAL AND EXPERIMENTAL REACTOR PHYSICS	12-15 AND
RAYLEIGH WAVE GROUND WAVE PROPAGATION (EXPERIMENTAL CRITICAL MASS PHYSICS - NUCLEAR REACTOR PLUTONIUM-ALUMINUM FUEL ELEMENTS HW-76128	14-23
NUCLEAR EXPLOSION - PRESS		IRRADIATION EVALUATION OF EXPERIMENTAL PYROLY CARBON-COATED URANIUM CARBIDE AND URANIUM DIO	
CAVITY IN HALF SPACE AND	STRESS LOADING ON SURFACE N63-17327 15-23		14-33
PHYSICAL AND RADIOLOGICAL FALLOUT - UNDERGROUND NUC RADIOMETRIC SURVEY		URANIUM CARBIDE AS NUCLEAR FUEL UNC-5048 N63-17461	15-07
PNE-225P	N63-17723 16-07	IRRADIATION BEHAVIOR OF BERYLLIUM OXIDE-URANI DIOXIDE NUCLEAR FUEL AS A FUNCTION OF FUEL	MU
ELECTRON DENSITY PROFILES IONOSPHERE CAUSED BY NUCL AFCRL-63-440	OF WAVE MOTIONS IN LEAR DETONATIONS N63-18018 16-12	PARTICLE SIZE	18-23
ARTIFICIAL RADIATION BELT ELECTRON PARTICLES FROM S NUCLEAR EXPLOSION	FORMED BY TRAPPED	SMAP-78 STRONTIUM-90 FUELED THERMOELECTRIC GENERATOR FOR COAST GUARD AUTOMATIC LIGHT STA MND-P-2836 N63-20584	TION 20-06
NASA-TH-X-50195 NUCLEAR WEAPONS EFFECT RE	N63-18859 18-12	ZIRCONIUM BASE ALLOY FOR NUCLEAR FUEL CLADDIN	SOUTH TO
MULLEAR HEAFUNS EFFECT KE	N63-20455 20-10	GEAP-4211 N63-21259 CLAD CARBIDE NUCLEAR FUEL THERMIONIC CONVERTE	21-18 RS

S ON

8 E

AI-8672 N63-21916 22-26	MUCLEAR PARTICLE ASSESSMENT STATES AND
NUCLEAR INTERACTION CATALOG OF NUCLEAR QUADRUPOLE INTERACTIONS AND RESONANCE FREQUENCIES IN SOLIDS - PART I, ELEMENTS AND INDRGANIC COMPOUNDS	SA MESON TOO HOLEUR RESULT STEVEN AREA TO SOME COMMENT STEVEN AREA TO SERVICE STANDARD OF STANDARD SA PLON A STANDARD SA PLO
15-520 N63-12476 06-23	SA PROTTON PASSEM SO YOUTE SELEVIC YESSA HATS POR CF CHARGED PARTICLE TO LANGE PASSEM STREET
HONTE CARLO METHOD FOR CASCADES OF HIGH ENERGY NUCLEAR PARTICLES N63-15140 11-23	MODEL FOR STATISTICAL ATON WITH HON-VANISHING
NUCLEAR INTERACTION OF 900 NEV ALPHA PARTICLES IN STUDY OF HELTUM NUCLEI AS PROJECTILES NYO-10269 N63-18146, 16-23	ANGULAR MOMENTUM CX-59 M63-12147 05-23 HIGH EMERGY PHYSICS STUDY OF NUCLEAR PARTICLES BY
HODEL OF NUCLEAR PARTICLE DECAY INTO 3 PIONS OF EQUAL MASS - FINAL STATE INTERACTION MASS-19408 19-24	PHOTOGRAPHIC NUCLEAR EMULSION AND HELTUM BUBBLE CHAMBER AFOSR-2661 CAR SOLUTION NO. 13140 07-23
INELASTIC NUCLEAR INTERACTIONS BETWEEN HIGH ENERGY PROTONS AND SILICON PHOTOVOLTAIC CELLS	PRODUCTION OF SOLAR HIGH-ENERGY PROTON PARTICLES EXPLAINS SOLAR RADIATION FLARE PHENOMENA N63-15122 11-28
NEW DESCRIPTION OF STRANGENESS-CHANGING WEAK	MEASUREMENT OF NUCLEAR SECONDARY PARTICLES FROM INTERACTION OF PROTONS N63-19141 11-32
INTERACTIONS RIFP-26 N63-20400 20-23	HEAVY MESONS AND EXCITED BARYONS - MASS SPECTRA.
NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY, NUCLEAR MAGNETIC RESONANCE, PLASMA	QUANTUM HUMBERS, LIFE TIMES AND DECAY MODES SLAC-13 N63-15010 13-23
DYNAMICS, COMMUNICATIONS ENGINEERING N63-10165 01-01	CONNECTION BETWEEN NUCLEAR PARTICLE PARTY, STRANGENESS, AND ISOTOPIC SPIN LNF-63/22 N63-17126 15-25
NUCLEAR PHYSICS - GAMMA RADIATION, NEUTRON POLARIZATION, LIGHT NUCLEI	EFFECTS OF FINAL-STATE INTERACTIONS ON SCATTERING
ANL-6603 MARKET STANFART MIT N63-10407 01-23	PROCESSES FOR PARTICLES NOT SUSCEPTIBLE TO DIRECT SCATTERING EXPERIMENTS - NUCLEAR PARTICLES
NUCLEAR PHYSICS - NUCLEAR REACTIONS, SPECTROSCOPY, MAGNETIC RESONANCE, NEUTRON SCATTERING AND	- WALL TOTAL STAND DEALS & SAPETO STANDAR SON
DIFFRACTION, RADIATION DAMAGE - SYMPOSIUM, 1962 N63-10767 02-23	MODEL OF NUCLEAR PARTICLE DECAY INTO 3 PIGNS OF EQUAL MASS - FINAL STATE INTERACTION
PROTON PRECESSION MAGNETOMETER - IONOSPHERIC ELECTROMAGNETISM 05-15	N63-19408 19-24 ITERATION METHODS FOR PARTICLE RESONANCE CALCULATIONS N63-20066 20-23
HYPERFINE STRUCTURES AND NUCLEAR MAGNETIC MOMENTS BY ATOMIC-BEAM RADIO FREQUENCY SPECTROSCOPY UCRL-10321 N63-12939 07-23	MEUTRON ACTIVATION ANALYSIS BY IRRADIATION MITH MUCLEAR PARTICLES N63-21912 22-23
RELATIVE SIGNS OF NUCLEAR MAGNETIC RESONANCE SPIN- SPIN COUPLING CONSTANT IN STYRENE OXIDE BY DOUBLE RESONANCE	MUCLEAR PHYSICS CF PLASMA PHYSICS MUCLEAR PHYSICS - GAMMA RADIATION, NEUTRON POLARIZATION, LIGHT NUCLEI
JPL-TR-32-310 N63-13275 07-07 SPIN WAVES AND NUCLEAR MAGNETIC RESONANCE	ANL-6603 N63-10407 01-23
ENHANCEMENT IN NICKEL FLUORIDE DOMAIN WALLS N63-14372 10-23	NUCLEAR PHYSICS - NUCLEAR REACTIONS, SPECTROSCOPY, HAGNETIC RESONANCE, NEUTRON SCATTERING AND DIFFRACTION, RADIATION DAMAGE - SYMPOSIUM, 1962
FLUDRINE-19-FLUDRINE-19 AND HYDROGEN-1-FLUDRINE-19 HUCLEAR MAGNETIC RESONANCE COUPLING CONSTANTS JPL-TR-32-369 N63-15451 12-07	SURFACE AND VOLUME PROPERTIES OF GROUND STATE
NUCLEAR MAGNETIC RESONANCE IN PARAMAGNETIC	NUCLEAR MATTER ANL-6623 N63-11689 04-20
MD 2880 WAYDLYTS & HOMATANA MALESTANDA 19-23	MODEL FOR STATISTICAL ATOM WITH NON-VANISHING ANGULAR MOMENTUM
NUCLEAR SPIN AND MAGNETIC MOMENT OF CADMIUM-115 - SPIN LATTICE RELAXATION FOR HELIUM-3 NUCLEI IN	CX-59 27 20 2011 200 40 24 24 26 26 27 27 20 20 20 20 20 20 20 20 20 20 20 20 20
SOLID HELIUM-3 - LASER SPECTROMETERS CU-6-63-SC-90789 N63-20033 19-23	HUCLEAR PHYSICS, REACTOR PHYSICS AND NASS PHYSICS HH-75228
HIGH ENERGY OXIDIZERS - NUCLEAR MAGNETIC RESONANCE AND INFRARED SPECTRUM STUDIES OF IONIC STRUCTURE OF CHLORINE TRIFLUDRIDE COMPLEXES	MUCLEAR REACTIONS INDUCED BY PIONS AND PROTOMS - EXCITATION FUNCTION EVIDENCE FOR ELEMENTARY PARTICLE COLLISIONS IN NUCLEAR MATTER UCRL-10531 N63-12422 06-23
NUCLEAR MAGNETIC RESONANCE USAGE IN TUMABLE, VARIABLE BAND-PASS FILTERS RADC-TDR-63-258 N63-22065 22-23	PHOTOMICROGRAPHY MEASUREMENTS OF GRAIN GENSITIES OF IONIZED PARTICLE TRACKS IN NUCLEAR EMULSIONS USHROL-TR-591 M63-12461 06-15
RECEIVER EMPLOYING NUCLEAR MAGNETIC RESONANCE	NUCLEAR ACTIVATION ANALYSIS - TECHNIQUE DEVELOPMENT - APPLICABILITY N69-12650 06-07
FOR TUNING RADC-TDR-63-399 N63-22429 23-09	PHOTOPROTONS EMITTED FROM LIGHT NUCLEI AND NUCLEAR
TRITIUM LABELING OF ORGANIC MATERIALS - NUCLEAR MAGNETIC RESONANCE AND EXCHANGE REACTIONS NO10178 MG3-27787 23-23	SHELL STRUCTURE NUP-62-2 N63-12743 06-23
SILICON BORON INPURITY SYSTEM STUDY BY NUCLEAR MAGNETIC RESONANCE M63-22970 23-25	PLASMA CURRENT SHEET DYNAMICS - THERMOMUCLEAR PUSION - SPACE PROPULSION 4-2 N63-12961 07-24

HAC

-

+5

NUC

Ŷ

GRAVITY - SPACE SCIENCE - NUCLEAR PHYSICS - SOLAR SYSTEM - PLANETS N63-12967 07-23	ELASTIC SCATTERING OF GAMMA RAYS, DIPOLE EXCITATIONS, DAMPING OF GIANT DIPOLE RESONANCE N63-16451 14-25
PLASMA PHYSICS THERMONUCLEAR FUSION CONFERENCE - REPORTS AND ANSTRACTS - PART 2	DESCRIPTION OF PRINTED DUTPUT FROM INTRANUCLEAR
N63-13127 07-24	CASCADE CALCULATION ORNL-3433 N63-16500 14-25
HIGH EMERGY PHYSICS STUDY OF NUCLEAR PARTICLES BY PHOTOGRAPHIC NUCLEAR EMULSION AND HELIUM BUBBLE CHAMBER	BIBLIOGRAPHY OF NUCLEAR PHYSICS - 1957-1958 M63-16846 14-23
AFOSR-2661 N63-13140 07-23 MATERIALS TESTING REACTOR - ENGINEERING TEST	BIBLIOGRAPHY OF NUCLEAR PHYSICS - 1959-1960 M63-16847, 14-23
REACTOR, NUCLEAR PHYSICS, INSTRUMENTATION, APPLIED MATHEMATICS N63-13233 07-01	ABSTRACTS AND BIBLIOGRAPHY OF NUCLEAR PHYSICS
NUCLEAR AND GENERAL PHYSICS & HASS SPECTROSCOPY - NEUTRON CROSS SECTION, PROTON SCATTERING, AND	RESEARCH ORNL-3425 N63-17249 15-23
MESON-NUCLEON INTERACTION ANL-6666 N63-13652 08-23	INTEGRAL NEUTRON THERMALIZATION - NUCLEAR PHYSICS, ACCELERATORS, AND SCATTERING GA-3542 N63-17257 15-23
NUCLEAR REACTOR RADIATION SHIELDING OF THE ORGEL	HIGH-ENERGY NUCLEAR ACCELERATOR PHYSICS
CRITICAL EXPERIMENT N63-13764 08-23	TID-18636 N63-17769 16-25
AREA SCANNING, LOOKING FOR MU-ENDS, LEADS TO DENIAL OF BACKWARD-FORMARD ASYMMETRY OF PI-DECAY IN NUCLEAR EMULSIONS M63-13942 09-23	COULOMB SCATTERING IN NUCLEAR RESEARCH EMULSION NYO-10271 N63-18070 16-23
MOLECULAR STRUCTURE OF PROTACTINIUM 234 -	NUCLEAR PROPERTIES OF URANIUM OXIDE LATTICES MODERATED BY HEAVY WATER
ELECTRON SPECTRUM AND RADIATION N63-13944 09-23	BAN-1271 N63-18828 18-23
ELECTROMAGNETIC TRANSITIONS IN GOD-GOD DEFORMED	ELEMENTARY-PARTICLE PHYSICS UCRL-8030, REV. N63-19002 18-25
NUCLEI N63-13945 09-23 DIRECTIONAL CORRELATION ATTENUATION COEFFICIENT	PARTICLE DETECTION IN SPACE - LITHIUM ION DRIFT DETECTOR, PULSE AMPLIFIER, NUCLEAR EMULSIONS AND
FOR MAGNETIC DIPOLE & ELECTRIC QUADRUPOLE INTER- ACTIONS - PART 1. INTERMEDIATE NUCLEAR STATE SPIN	RADIATION SENSITIVE HICA R63SD37 N63-19021 18-09
TID-17089/PT. 1/ N63-14237 10-23	SALZBURG CONFERENCE ON PLASHA PHYSICS & CONTROLLED
DIRECTIONAL CORRELATION ATTENUATION COEFFICIENT FOR MAGNETIC DIPOLE & ELECTRIC QUADRAPOLE INTER- ACTIONS - PART 2, INTERMEDIATE NUCLEAR STATE SPIN	NUCLEAR FUSION, SEPT 1961 AEC-TR-5589, BK. 2 N63-19194 18-24
TID-17089/PT. II/ N63-14285 10-23	SPACE, ATOMIC, NUCLEAR, AND PLASMA PHYSICS UCRL-10862 N63-19226 18-23
FERNI-CONTACT CONTRIBUTION TO THE PROTON- DEUTERON COUPLING CONSTANT IN THE HYDROGEN- DEUTERIUM MOLECULE N63-14519 10-23	WEYL REFLECTIONS IN THE UNITARY SYMMETRY THEORY OF STRONG INTERACTIONS - NUCLEAR PHYSICS AND
REACTOR INSTRUMENTATION AND CONTROLS - RADIATION	PARTICLE THEORY NYO-10266 N63-19288 18-23
MONITORING, NUCLEAR SPECTROSCOPY, DATA PROCESSING, HIGH-VOLTAGE ACCELERATOR SUPPORT EQUIPMENT ORNL-3191 11-01	SU-SUB-3 INVARIANCE ANALYSIS - MESON PRODUCTION, PARTICLE INTERACTIONS, NUCLEAR PHYSICS NYO-10268 N63-19290 18-23
QUANTITATIVE ANALYSIS OF MULTICOMPONENT PULSE- HEIGHT SPECTRUM FROM DECAY OF RADIONUCLIDES NH-7500 N63-14863 11-20	NYO-10268 N63-19290 18-23 PHYSICS RESEARCH - THEORETICAL REACTOR, EXPERIMENTAL NUCLEAR & CRITICAL MASS PHYSICS
NUCLEAR PHYSICS, REACTORS, CHEMICAL ENGINEERING,	HW-77311 N63-19506 19-23
METALLURGY, RADIATION & ENGINEERING - PROGRESS REPORT	METHOD FOR DETERMINING XI HYPERON SPIN - NUCLEAR PHYSICS
BNL-759/S-62/ N63-14890 11-01	LNF-63/31 19-23
CONTROLLED THERMONUCLEAR FUSION FOR SPACECRAFT PROPULSION - USE OF DEUTERIUM-HELIUM 3 AS REACTOR FUEL CONTAINED BY SUPERCONDUCTING MAGNETS	MONMILITARY NUCLEAR RESEARCH - CIVILIAN USES OF ATOMIC ENERGY BMI-1632/DEL-/ N63-19723 19-23
STEVEN SEAR DIA 20129HS SSTOAMS . N63-15075 11-27	CHROMIUM-51 NUCLEAR ORIENTATION IN CERTUM
SPECTRA AND PROBABILITIES OF ETA-MESON DECAY BY ELECTRON-POSITRON DECAY NODE & BY MUON-MUON DECAY	MAGNESIUM NITRATE SINGLE CRYSTALS N63-19810 19-25
NODE - TWO-LEPTON SYSTEMS - NUCLEAR PHYSICS LNF-63/16 N63-15569 12-23	COMMUTATION RELATIONS OF THREE-DIMENSIONAL UNITARY UNIMODAL MATRICES SU-SUB3 - ELEMENTARY PARTICLE
HEAVY MESONS AND EXCITED BARYONS - MASS SPECTRA, QUANTUM NUMBERS, LIFE TIMES AND DECAY MODES	PHYSICS ANL-6729 124 33424 3344 334 163-19841 19-20
SPECTRAL SHIFT CONTROL REACTOR BASIC PHYSICS -	NUCLEAR AND THEORETICAL PHYSICS, NEUTRON INCLASTIC
SPECTRAL SHIFT CONTROL REACTOR BASIC PHYSICS - NUCLEAR PROPERTIES OF SLIGHTLY ENRICHED LATTICES MODERATED BY DEUTERIUM OXIDE - MATER MIXTURES	SCATTERING IN LIQUIDS, SOLIDS AND ELECTRONIC DEVICES AECL-1778 N63-20280 20-23
BAW-1266 N63-15023 13-23	NUCLEAR PHYSICS - REACTIONS & SPECTROSCOPY
EMGINEERING RESEARCH SUMMARY - STRUCTURAL, CIVIL, MECHANICAL & ELECTRICAL ENGINEERING AERONAUTICS, METALLURGY, AGRICULTURE AMD MUCLEAR PHYSICS	N63-20336 20-23 NEW DESCRIPTION OF STRANGENESS-CHANGING WEAK
CN-73194 M63-16103 13-01	INTERACTIONS

GIANT RESONANCE DIPOLE TRANSITIONS IN NUCLEI -

MAGNETED RESONANCE OF THE MAN CHEST CONTRACTOR CENTERS

RIFP-26 VE YOUTZ HATEYZ TTISHON N63-20400 20-23

15 17 10 IC IS

NUCLEAR PHYSICS, BEAM AND PLASMA PHYSICS N63-20439 20-23	SUBSONIC NUCLEAR POMERED LOGISTIC AIRPLANE MITH HELIUM-COOLED REACTOR NASA-TM-X-28 NA3-20524 20-34
HIGH ENERGY NUCLEAR PHYSICS USING PARTICLE ACCELERATORS AND NUCLEAR EMULSIONS CERN-63-22 N63-20459 20-23	POWER REQUIREMENTS FOR MUCLEAR-ELECTRIC SPACECRAFT MISSIONS
SOLAR FLARE PROTON ENERGY SPECTRUM NUCLEAR ENULSION, POWER LAW FOR KINETIC ENERGY N63-21354 22-28	NUMERICAL ANALYSIS OF DIRECT NUCLEAR ELECTROGENERATOR CELLS USING CERIUM 144 BETA-
TIME-OF-FLIGHT MEASUREMENT OF FISSION FRAGMENTS WITH PHOTOMULTIPLIER ORNL-3486 M63-21470 22-23	NASA-TN-D-2070 NASA-TN-D-2070 24-23
NEUTRON CONTRIBUTIONS TO LITHIUM DIHYDRIDE PROPELLANT HEATING N63-22305 23-27	MUCLEAR POMERPLANT MUCLEAR ELECTRIC POWER SYSTEMS ARS PAPER-2522-62 M63-10260 01-06
HULTIPARAMETER ANALYZERS FOR NUCLEAR PHYSICS CU/PMPL/-227 N63-22858 23-23	LECTURES ON FUSION POWER - PLASMA CONFINENCHY HATT-145 N63-10319 01-24
NUCLEAR PHYSICS, HIGH-ENERGY PHYSICS, AND EXTRANUCLEAR PROPERTIES OF MATTER	ELECTROSTATIC PROPULSION SYSTEM WITH A DIRECT NUCLEAR ELECTROGENERATOR N63-13572 06-27
ANL-6720 NUCLEAR AND THEORETICAL PHYSICS RESEARCH	RETROSPECTIVE ANALYSIS OF ASPECTS OF ALPR-SL-1.
ANL-6767 N63-23162 24-23	AML-6692 01-EAM 1 N63-14564 19-23
PROCEEDINGS OF THE NATIONAL INSTITUTE OF NUCLEAR PHYSICS - FRASCATI, ITALY, 1963 LNF-63/47 N63-23193 24-23	MUMERICAL ANALYSIS OF EFFECT OF NUCLEAR REACTOR PLANT CHARACTERISTICS ON REACTOR CORE POWER DISTRIBUTION - REACTOR TECHNOLOGY N63-15262 12-23
NUCLEAR RESEARCH - PROTON SYNCHROTRON &	CL-41 XINCLEON
SYNCHRO-CYCLOTRON N63-23355 24-23 HIGH ENERGY NUCLEAR PHYSICS ISS-63-29 N63-23460 24-23	ANALYSIS OF SPACE-TIME OYNAMICS OF POWER DISTRIBUTION IN NUCLEAR POWER REACTOR KAPL-2217 N63-15410 12-10
RESONANT STATES IN SCATTERING OF K MESONS & HYPERONS 104-23	MATER-COOLED NUCLEAR POWERPLANT MITH THERMIONIC CONVERTERS MND-2903 /VOL. 1/ N63-16362 14-27
HIGH ENERGY NUCLEAR PHYSICS SEMINAR, ROME, 1963 15S-63-30 N63-23465 24-23	THERMIONIC CONVERTERS FOR NUCLEAR POWERPLANTS
PROPOSED EXPERIMENTAL STUDY OF PI-PI NESON	DESIGN. DEVELOPMENT, FABRICATION, INSTALLATION AND
INTERACTION N63-23466 24-23	TESTING OF PREPACKAGED, AIR TRANSPORTABLE
PION CAPTURE FOR SHELL MODEL INVESTIGATIONS N63-23468 24-23	MMD-W-5333140F- 11
TERRESTRIAL MAGNETISM REPORT - GEOPHYSICS, BIOPHYSICS AND NUCLEAR PHYSICS N63-23539 24-01	THERMODYNAMIC CYCLES OF ATOMIC POWER STATIONS WITH MAGNETONYDRODYNAMIC GENERATORS JPRS-21241 N63-22107 22-06
CLEAR POWER	NUCLEAR PROPULSION MASS OF HIGH VELOCITY GASES FROM TOROIDAL
CF SYSTEM FOR NUCLEAR AUXILIARY POWER /SNAP/ PROGRAM SNAP-2 POWER CONVERSION SYSTEM	TAPLOSTON CHARGES - NUCLEAR PULSE PROPULSION GAND-3629 N63-10124 01-27
ER-4108 02-06	ROCKETS IN NASA SPACE PROGRAM
NUCLEAR POWER REACTORS FOR UNDERGROUND INSTALLATIONS REQUIRING LONG TERM CLOSED OR ISOLATED OPERATION	RECOVERABLE SPACE LAUNCHING NUCLEAR SYSTEMS.
EM-1110-345-950 N63-16574 14-10	N63-10376 01-27
NUCLEAR POWER FOR CIVILIAN APPLICATIONS 8MI-1630 N63-17999 16-01	REUSABILITY AND DISPOSAL OF NUCLEAR SYSTEMS IN SPACE N63-10377 01-27
PEACEFUL APPLICATION OF NUCLEAR ENERGY - PHYSICS, ENGINEERING, AND GEOLOGY - VOL II N63-18275 17-01	MUCLEAR PROPULSION FOR ORBIT-BASED SPACECRAFT N63-10383 01-27
PEACEFUL APPLICATION OF NUCLEAR ENERGY - PHYSICS, ENGINEERING, AND GEOLOGY - VOL I N63-18296 17-01	THERMAL DESIGN OF SQLED-CORE REACTORS FOR NUCLEAR PROPULSION JPL-TR-32-217 N63-10652 02-27
PO-65H4 RESOS-EMANGE, NOLTHING NCA M63-18296 17-01	MUCLEAR ROCKETS AND NUCLEAR ELECTRIC PROPULSION
NIGBUM BASE ALLOY AS ALKALI METAL CONTAINMENT MATERIAL FOR NUCLEAR TURBOELECTRIC SPACE POMER SYSTEMS	SYSTEMS
NASA-CR-50339 N63-18397 17-18	GAS DYNAMICS AND PLASMA PHYSICS - VOL 11
CIVILIAN NUCLEAR POWER PROGRAM OF ATOMIC ENERGY COMMISSION - NOMMILITARY APPLICATIONS OF ATOMIC	MASA-SP-11, VOL. 2
ENERGY SRIA-65 N63-19767 19-01	NUCLEAR ROCKET PROPULSION N63-11510 03-27
BRAYTON CYCLE NUCLEAR SPACE POWER SYSTEMS AND THEIR HEAT TRANSFER COMPONENTS NASA-RP-3	BERYLLIUM OXIDE CERAMICS AND THEIR APPLICATION IN NUCLEAR PROPULSION SYSTEM - PLUTO PROJECT UCRL-6743

NACA-RM-E50H24

NUCI

CF CF CF CF

.

IN	RY II-C PROGRA ISTRUMENTATION RL-7036, PT. 6	AND DATA PROCE	ESSING	08-15
RE	ACTOR DEVELOPM	ENT PROGRAM -	DESIGN, SAFET	
NU	CLEAR ROCKET F	UEL TEST REACT	TOR N63-14971	11-27
PR	ACE SCIENCE - OPELLANTS AND MANNED SPACE	MUCLEAR PROPUL	ISSIONS - HIGH LSION SYSTEMS .N63-15983	-ENERGY 13-29
SP	ACE SCIENCE - : OM NUCLEAR PRO VIRONMENT	SPACE VEHICLE	RADIATION SHI MS AND SPACE N63-15987	ELDING 13-30
OR EV	BIT-LAUNCH NUCL ALUATION PROCES SSION	LEAR DESIGN ANDURE FOR ESCAP	DE AND PLANETA	RY
MT	P-PEVE-F-62-11		N63-16671	14-30
CO	ASURED EFFECTS CLEAR RADIATION MPONENT PARTS (K-163	OF VARIOUS CO N. VACUUM, AND OF NUCLEAR-PON	DHBINATIONS OF CRYOTEMPERAT WERED SPACECRA N63-16677	URES ON FT 14-33
NU	VIEW OF ADVANCE	ED PROPULSION TRIC PROPULSIO	FOR MARS MISS ON SYSTEMS N63-16834	ION - 14-29
PRO	CLEAR PROPULSION OPELLANT AND END NERVA ENGINE	ON PROGRESS - NGINE DEVELOPM	KIWI-8 REACTO SENT, RIFT PRO- N63-17227	R, JECT, 15-27
E M1	CLEAR PROPULSION TERPLANETARY FL MA PAPER-63-256	TCHT	NA3-17801	LES FOR
	ACE MISSION CAP		HINDS TABLES	NOVA
LAU	INCH VEHICLES NA PAPER-63-286	ITH NUCLEAR E	NGINES N63-17813	16-27
HUC VOF TOF	CLEAR PROPULSION RTEX FLOW, AND R-930/2210-14/T	ON RED - FLOW GASEOUS FISSI [R-1	VISUALIZATION ON REACTOR N63-18718	17-27
NUC	CLEAR PROPULSION	N AND AUXILIA	RY POWER SOURCE N63-18928	18-26
NUC	LEAR PROPULSIO	N SYSTEMS FOR	MERCHANT SHII N63-18929	18-27
NUC	LEAR ELECTRIC.	SOLID CORE A	ND GASEOUS COR	RE
8-1	10053-3	CON HEININGAL	N63-19040	18-27
PRO	LEAR PROPULSIO	N - AN EMERGI	NG TECHNOLOGY N63-21155	- NASA 21-27
	LEAR PROPULS TO	N FOR ROCKETS	, RAMJETS & SI	ACE
	-7653 /PT. 1/	SILITIN SI S	M63-22301	23-01
CAL	TICAL ASSEMBLY CULATIONS FOR	WORK IN SUPPI PROPULSION RE	ORT OF NEUTRON ACTOR DEVELOPM N63-22302	IIC IENT 23-27
F GA	R RADIATION MNA RADIATION ICONDUCTOR HON	ITOR FOR NUCL	EAR RADIATIONS	
CHE	ATOM OOSIMETRY	all managed les	N63-11222	03-15
RAD	IATION IN RESE	ARCH PILES	N43-11745	04-23
SAF	ETY RULES FOR	WORKING WITH I		ANA I
MAT	ERTALE	m test to leave	HA3-11034	04-16
810	CHEMISTRY - RAI			1930

ANALYSIS OF THREE CYCLES FOR NUCLEAR PROPULSION OF AIRCRAFT

CRITICAL MASS OF GASEOUS-CORE CYLINDRICAL-CAVITY
REACTORS FOR NUCLEAR PROPULSION
NASA-TN-D-1575 N63-13218 07-2

N63-12545 06-27

N63-13218 07-27

BIOPHYSICS - NUCLEAR RADIATION TOXICOLOGY	
UCLA 510	N63-12946 07-1
METALLURGY - NUCLEAR RADIATION CRYSTALS	N - OPTICS - ALLOYS N63-13191 07-0
FISSION SINTERING OF BORIDE POR	DWDERS BY REACTOR
GEAP-3743	N63-13201 07-2
DELINEATION OF TRACKS OF HEAV NUCLEAR PROCESSES WITH IN LARG CRYSTALS	Y COSMIC RAYS AND GE SILVER CHLORIDE
NASA-TN-D-1547	N63-13715 08-2
MATHEMATICAL ANALYSIS OF NUCLE	EAR RADIATION,
NEUTRON DAMAGE TO TRANSISTORS TR-975, SUP. 1	N63-15513 12-0
EFFECT OF NUCLEAR RADIATION OF ESTIMATION OF VALUES OF RADIAT REIC-25	N TRANSDUCERS AND TION THRESHOLDS
EFFECT OF NUCLEAR RADIATION OF	
CRYOGENIC TEMPERATURE ER-6047	
MEASURED EFFECTS OF VARIOUS CO NUCLEAR RADIATION, VACUUM, AND COMPONENT PARTS OF NUCLEAR-POW FZK-163	N63-16677 14-3
MICROELECTRONICS - EFFECTS OF ELECTRONIC EQUIPMENT	NUCLEAR RADIATION O N63-17377 15-2
BEARING AND LUBRICATION SYSTEM ACCESSORY EQUIPMENT FOR OPERAT TEMPERATURE, PRESSURE AND NUCL MTI-241/1-63/	NS FOR FLIGHT FION UNDER EXTREME LEAR RADIATION N63-17684 16-1
	LECTRONIC CIRCUITS
IN NUCLEAR RADIATION ENVIRONME SCDC-3045	NT N63-17949 16-2
NUCLEAR RADIATION - BIOLOGICAL SHIELDING	THEFT
HRL-TDR-62-61	
STRUCTURE SHIELDING AGAINST FA NUCLEAR WEAPONS NBS-MONOGRAPH-42	ALLOUT RADIATION FRO
NBS-HONOGRAPH-42	N63-18195 16-3
EFFECT OF TRANSIENT NUCLEAR RAUSAERADL-TR-2292	NOTATION ON CABLES N63-18999 18-0
NOISE SIGNAL AND CARRIER HODUL	ATION IN ELECTRICAL
CABLES DURING NUCLEAR PULSE IR USAELRDL-TR-2334	RADIATION N63-19331 18-0
AND THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED I	TAPACAS SALES
HOT FLOW CHARACTERISTICS OF PO EXPOSURE TO NUCLEAR RADIATION	LYETHTLENE AFTER
NARF-63-IT	N63-19439 19-1
NUCLEAR RADIATION EFFECT ON BA Zirconium titanate — piezoelec Pa-tr-3045	TRIUM TITANATE & LEA TRIC CRYSTALS N63-19954 19-2
NUCLEAR RADIATION EFFECTS IN I TRIGGER CIRCUIT AND DIRECT CUR GA-4395	MPACT DETECTOR. RENT AMPLIFIER N63-20017 19-0
RESPONSE OF P-N-P-N TRANSISTOR NUCLEAR RADIATION - RADIATION	SNITCH TO PULSED EFFECT N63-20233 20-0
MINTED	
THERMONUCLEAR REACTOR FOR STUD PHOTOCHEMISTRY AND RADIOCHEMIS NUCLEAR RADIATION ON SOLIDS AN AID-P-63-88	TRY AND EFFECTS OF

ARING AND LUBRICATION SYSTEMS F CESSORY EQUIPMENT FOR OPERATION MPERATURE, PRESSURE AND NUCLEAR 1-241/1-63/	UNDER EXTRE	ME 16-17
REFORMANCE OF SEMICONDUCTOR ELEC		1471470
NUCLEAR RADIATION ENVIRONMENT DC-3045	N63-17949	16-25
CLEAR RADIATION - BIOLOGICAL EF		PROF
IELDING L-TOR-62-61	N63-18012	16-16
RUCTURE SHIELDING AGAINST FALLD	UT RADIATION	FROM
CLEAR WEAPONS S-MONOGRAPH-42	N63-18195	16-34
FECT OF TRANSIENT NUCLEAR RADIA		ES 18-09
ISE SIGNAL AND CARRIER MODULATI BLES DURING NUCLEAR PULSE IRRAD	IATION	
	N63-19331	31/30
T FLOW CHARACTERISTICS OF POLYE POSURE TO NUCLEAR RADIATION	THYLENE AFTE	R
RF-63-1T	N63-19439	19-19
CLEAR RADIATION EFFECT ON BARIU RCONIUM TITANATE - PIEZOELECTRI -TR-3045		
CLEAR RADIATION EFFECTS IN IMPA IGGER CIRCUIT AND DIRECT CURREN -4395	T AMPLIFIER	19-09
SPONSE OF P-N-P-N TRANSISTOR SN CLEAR RADIATION - RADIATION EFF	ITCH TO PULS ECT N63-20233	SER STATE
ERMONUCLEAR REACTOR FOR STUDY O DTOCHEMISTRY AND RADIOCHEMISTRY CLEAR RADIATION ON SOLIDS AND S D-P-63-88	AND EFFECTS EMICONDUCTOR	OF
PTON-ARGON GAS-FILLED THERMION ED AS NUCLEAR RADIATION GENERATI	IC CONVERTER ORS N63-20366	
LEAR RADIATION DAMAGE OF CERAM	IC REACTOR F N63-20518	UEL 20-19
PECT OF PULSED NUCLEAR RADIATIO	N ON QUARTZ	BARCE

USE

REI EFF

N 3

D

CRYSTAL FREQUENCY CONTROL USAELROL-TR-2320 N63-20672 20-25	BEVATRON OPERATION & DEVELOPMENT - HYDROGEN BUBBLE CHAMBER & SPARK CHAMBER STUDY OF MUCLEAR REACTIONS UCRL-10347 N83-13563 08-23
EFFECT OF NUCLEAR RADIATION AND VACUUM ON PHYSICAL PROPERTIES OF NONMETALLIC MATERIALS NASA-CR-50948 N63-21066 21-23	CALCULATION OF ANOMALOUS MAGNETIC MOMENT & LIFE- TIME FOR RADIOACTIVE DECAY PARTIES AS PROPERTIES
NONMETALLIC SPACECRAFT MATERIAL TEST PROGRAM HIGH VACUUM, NUCLEAR RADIATION, DYNAMIC TENSILE	USE OF NUCLEAR ACTIVATION REACTION 18-DXYGEN.
STRENGTH & TEST MACHINES NASA-CR-50987 N63-21070 21-19	21-NEON FOR 18-OXYGEN ANALYSIS N63-14634 10-23
NUCLEAR SCIENCE & TECHNOLOGY - BARYON & NEUTRINO DOUBLETS, NUCLEAR & COSMIC RADIATION IN OCEAN, &	MEASUREMENT OF SECONDARY SPECTRA FROM HIGH-ENERGY NUCLEAR REACTIONS N63-15139 11-23
HALF-LIVES OF CESIUM 137 AND COBALT 60 N63-21179 21-23	PHYSICS SUMMARY - VAN DE GRAFF ACCELERATOR, MUCLEAR REACTIONS, MASS SPECTROSCOPY, SUPERCONDUCTIVITY, AND PARTICLE THEORY
PREDICTION OF TRANSIENT NUCLEAR RADIATION EFFECTS ON ELECTRONIC CIRCUITS AND DEVICES	SUPERCOMOUCTIVITY, AND PARTICLE THEORY ANI-6679 11-23
RTD-TDR-63-3007 N63-21216 21-09	PREDICTION AND CONTROL OF NUCLEAR REACTIVITY LIFETIME AND BURNUP OF NUCLEAR FUELS FOR POWER
SYNTHESIS OF SEMICONDUCTOR MATERIALS USING NUCLEAR	LIFETIME AND BURNUP OF NUCLEAR FUELS FOR POWER
RADIATION NYO-10472 N63-21315 21-25	UCRL-10614
NUCLEAR RADIATION AND CRYO-TEMPERATURE - COMBINED EFFECT ON NONMETALLIC SPACECRAFT MATERIALS NASA-CR-31140 N63-21332 21-19	NEUTRON-INDUCED NUCLEAR FISSION SYMMETRY IN URANIUM-235 AT INDIVIDUAL RESONANCES PNE-114F N63-15361 12-23
NUCLEAR RADIATION EFFECT ON MATERIALS AT CRYOGENIC TEMPERATURES - EQUIPMENT, HANDLING, REFRIGERATION	CALCULATIONS ON HIGH ENERGY NUCLEAR INTERACTIONS AND CASCADE REACTIONS BY MONTE CARLO METHOD ORNL-3383 N63-16125 13-23
NASA-TH-X-50578 N63-21734 22-23	ELECTRONUCLEAR DIVISION - NUCLEAR REACTION
EFFECT OF NUCLEAR RADIATION AT CRYOGENIC TEMPERATURE ON SENICONDUCTOR MATERIALS	STUDIES AND CYCLOTRON OPERATIONS ORNL-3432
REIC-30 N63-22129 22-23	EFFECT OF SINGLE PION EXCHANGE IN THE REACTION
NUCLEAR RADIATION, COSMIC RAYS, SOLAR FLARES, & RADIATION BELT EFFECTS IN SPACE N63-22691 23-23	PROTON PLUS PROTON YIELDS NEUTRON PLUS PROTON PLUS PI-MESON UCRL-10718 N63-16571 14-23
INFRARED SPECTRA OF PLASTICS & ELASTOMERS AFTER NUCLEAR IRRADIATION - CHANGE IN MOLECULAR STRUCTURE & GROWTH & DECAY OF DOUBLE CARBON BONDS	TABLES OF ANISOTROPY FACTORS TO DETERMINE, BY ASSOCIATED PARTICLE METHOD, TOTAL NEUTRON VIELDS FROM NUCLEAR REACTIONS
M63-23057 24-19	GUAL-10132, SUPPLE
PULSED NUCLEAR RADIATION EFFECT ON PROPERTIES OF SILICON & GERMANIUM TRANSISTORS N63-23419 24-09	TABLES OF CROSS SECTIONS OF NUCLEAR REACTIONS MITH NEUTRONS IN 14 TO 15-MEV ENERGY RANGE EUR-122-E M65-17772 16-23
KRYPTON & XENON GAS FILLED THERMIONIC CONVERTERS USING NUCLEAR RADIATION N63-23565 24-24	ANGULAR DISTRIBUTION OF SCATTERED NEUTRONS AND PRODUCTS OF NUCLEAR REACTIONS BNL-400, VOL. I N63-17773 16-23
MEASURED EFFECTS OF THE VARIOUS COMBINATIONS OF NUCLEAR RADIATION, VACUUM, AND CRYOTEMPERATURES ON ENGINEERING MATERIALS	FORTRAN PROGRAMS FOR COMPUTING ANGULAR
NASA-CR-52319 N63-23807 24-19	IBH 704 COMPUTER PROGRAM N63-18331 17-20
NUCLEAR RAMJET TORY II-C PROJECT - NUCLEAR RAMJET ENGINE TEST IN	PROCESSING MULTICHANNEL ANALYZER MUCLEAR REACTION
BLOWDOWN WIND TUNNEL	SPECTRA WITH NEWDAC PROGRAM ORNL-3405 N63-19123 18-20
UCRL-7145 N63-18003 16-27	110-07-1 0000-1000 0000-1000 0000-1000-1
HICCEAR REACTION CF ELASTIC SCATTERING CF FISSION CF INCOHERENT SCATTERING	INTERNAL IGNIZATION EFFECT OF HEAVY-ION-INDUCED NUCLEAR REACTIONS AS FUNCTION OF TARGET THICKNESS UCRL-10888 N63-21161 21-23
CF SPALLING	ATOMIC INDUSTRY - NUCLEAR REACTIONS, NUCLEAR
SURVEY OF RECENT NUCLEAR REACTION EXPERIMENTS WITH ONE TO THREE MEV PARTICLE ACCELERATORS AFCRL-62-162 N63-10146 01-23	FISSION & THERMONUCLEAR FUEL, PRODUCTION OF DEUTERIUM, TRITIUM & LITHIUM AND NUCLEAR MOTORS JPRS-20754 22-23
NUCLEAR PHYSICS - NUCLEAR REACTIONS, SPECTROSCOPY,	NUCLEAR REACTIONS N63-23463 24-23
MAGNETIC RESONANCE, NEUTRON SCATTERING AND DIFFRACTION, RADIATION DAMAGE - SYMPOSIUM, 1962 N63-10767 02-23	NUCLEAR ROCKET NUCLEAR ROCKETS AND NUCLEAR ELECTRIC PROPULSION
HIGH ENERGY NUCLEAR REACTIONS OF NIOBIUM WITH	SYSTEMS AND THE PROPERTY OF THE PARTY NEST AND N
INCIDENT PROTONS AND HELIUM IONS	PERIGEE PROPULSION FOR ORBITAL LAUNCH OF NUCLEAR
ST. SHE'S AND SECRETARY OF THE STREET AND SECRETARY AND	NASA-TR-R-140 AND SELATES SEA NO3-11701 04-27
KINEMATICS FORTRAN PROGRAM FOR NUCLEAR REACTION ANALYSIS ORML-3251 N63-11566 04-20	ADVANCED NUCLEAR ROCKET MATERIALS RESEARCH TID-16315/DEL./ N63-12211 05-27
RADIATION DAMAGE IN GRAPHITE - NUCLEAR REACTIONS BNL-745/T-270/ N63-12334 05-19	MATER MODERATED REACTORS FOR MUCLEAR ROCKETS IN UNMANNED SPACE FLIGHT N63-13579 08-27
EX-SIGN BEDSERVANDELLOW GOLDLELLY SAMMAND SERVENCE AND THE TAX	AT-1802 SECNE-SON AND ST. VE NEW SONS CONSTRUCTION OF THE SECOND SONS CONSTRUCTION OF THE SECO

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FEASIBILITY OF OPTIMIZING NOZZLE PERFORMANCE FOR STATE-OF-THE-ART OF CHEMICAL RESEARCH ON AIR ORBITAL-LAUNCH NUCLEAR ROCKETS NASA-TN-D-1578 PURIFICATION AND CONTROL IN NUCLEAR SUBMARINES NRL-5814 N63-14926 1 N63-14251 AIR PURIFICATION AND CONTROL IN NUCLEAR SUB-MARINES - SULFATE CYCLE, SODIUM CHLORATE CANDLE, ANALYZER, ALGAL GAS EXCHANGER, LEAK DETECTOR INVESTIGATION OF COMBINED EFFECTS OF RADIATION AND VACUUM ON STRUCTURAL MATERIALS FOR NUCLEAR SPACE-CRAFT COMPONENTS - MATERIALS SCIENCE FZK-147 N63-15057 N63-14927 AIR PURIFICATION AND CONTROL IN NUCLEAR SUBMARINES - LABORATORY-SCALE OPERATION OF SULFATE CYCLE, STUDY ON ELECTRODE DIAPHRAGM PERFORMANCE CAPABILITY OF SINGLE-CAVITY VORTEX GASEOUS NUCLEAR ROCKETS NASA-TN-0-1579 N63-14928 ORBIT LAUNCHED NUCLEAR VEHICLE DESIGN AND PERFORMANCE EVALUATION PROCEDURE FOR ESCAPE AND PLANETARY MISSION AIR PURIFICATION AND CONTROL IN NUCLEAR SUBMARINES - MICROPOROUS RUBBER DIAPHRAGM FOR SULFATE CYCLE ELECTROLYTIC CELL NASA-TH-D-1570 N63-14929 11-16 ABSORPTION COEFFICIENT AND OPTICAL THICKNESS OF MEDIUMS FOR ENERGY AND HEAT TRANSFER BY RADIATI IN NUCLEAR ROCKET ENGINES N63-18927 18 AIR PURIFICATION AND CONTROL IN NUCLEAR SUBMARINES - USE OF ALGAL SYSTEM IN PHOTO-SYNTHETIC GAS EXCHANGER, LIGHT INTENSITY STUDY 18-23 MATHEMATICAL ANALYSIS OF CONVECTIVE HEAT TRANSFER N63-14930 11-16 IN NUCLEAR ROCKET NOZZLE NASA-TN-D-1742 AIR PURIFICATION AND CONTROL IN NUCLEA SUBMARINES - PRODUCTION OF SODIUM CHLORATE CANDLE AND DESIGN OF SMOKE FILTER FOR THIS CANDLE NUCLEAR ROCKET PROPULSION APPLIED TO MANNED MARS MONTE CARLO CALCULATION OF NEUTRON THERMALIZATION AIR PURIFICATION AND CONTROL IN NUCLEAR SUBMARINES - STABILIZING EFFECT OF VERSENE FE-3
SPECIFIC ON MONOETHANOLAMINE ABSORBER IN LIQUID HYDROGEN OF NUCLEAR ROCKET PROPELLANT LA-2909 N63-21656 CLOSED LOOP DYNAMICS OF NUCLEAR ROCKET ENGINES AIR PURIFICATION AND CONTROL IN NUCLEAR SUBMARINES - GAS CHROMATOGRAPHY AS SUBMARINE WITH BLEED TURBINE DRIVE N63-22307 23-27 ATMOSPHERE MONITOR N63-14933 CDAXIAL FLOW GASEOUS NUCLEAR ROCKET N63-22315 AIR PURIFICATION AND CONTROL IN NUCLEAR SUBMARINES - STATE-OF-THE-ART OF ATMOSPHERE ANALYZER FOR COMPONENT CONCENTRATION DETERMINATION DIGITAL CODE FOR CALCULATION OF STARTUP TRANSIENCE NUCLEAR ROCKET REACTOR N63-22318 AIR PURIFICATION AND CONTROL IN NUCLEAR SUBMARINES - CARBON SAMPLING OF SUBMARINE WELDING OF 7000 SERIES ALUMINUM FOR NUCLEAR ROCKET APPLICATIONS N63-22320 23-27 ATMOSPHERE N63-14935 11-16 ENGINE DESIGN EFFECT ON REMOTE HANDLING OF NUCLEAR AIR PURIFICATION AND CONTROL IN NUCLEAR SUBMARINES - LEAK DETECTOR FOR GAS AND VAPOR LEAKS N63-22321 23-27 STRUCTURAL DESIGN OF ROCKETS - GAMMA HEATING IN N63-14936 11-16 NUCLEAR ROCKETS N63-22322 23-27 AIR PURIFICATION AND CONTROL IN NUCLEAR SUBMARINES - INFRARED SPECTROSCOPY AND GAS CHROMATOGRAPHY FOR ANALYSIS OF CONTAMINANTS NUCLEAR ROCKET OUTLOOK - GAS CORE VS SOLID CORE 23-27 N63-22454 N63-14937 11-16 BASIC MATERIALS RESULTING FROM NUCLEAR ROCKET REACTOR STUDY - FUEL TESTING AIR PURIFICATION AND CONTROL OF NUCLEAR SUBMARINES - HEAT EXCHANGER FOR USE IN CONJUNCTION WITH CARBON MONOXIDE/HYDROGEN BURNER N63-22759 23-27 METEOROID HAZARD TO NUCLEAR ROCKET SPACE VEHICLE N63-14938 MISSIONS LMSC-A303606 ATR PURIFICATION AND CONTROL IN NUCLEAR SUB MARINES - ELECTROSTATIC PRECIPITATOR FOR AEROSOL REMOVAL N63-14939 11-NUCLEAR SHIP SAVANNAH NUCLEAR SHIP AIR PURIFICATION AND CONTROL IN NUCLEAR SUBMARINES - CATALYTIC COMBUSTION OF FREON AND CORRELATION OF DISSOCIATION ENERGIES OF GASEOUS MOLECULES AND HEATS OF VAPORIZATION - ATOMIC AND NUCLEAR STRUCTURE 11-16 OTHER HALDGEN COMPOUNDS N63-14940 NUCLEAR SUPERHEAT PROJECT WADD-TR-60-782, PT. XI N63-19150 NUCLEAR SUPERHEAT PROJECT GEAP-4024 N63-11979 05-23 ELECTRONIC, NUCLEAR & HYPERFINE STRUCTURE OF ERBIUM-171, TERBIUM-161 AND THULIUM-1 NUCLEAR SUPERHEAT PROJECT - MATERIAL CORROSION, FUELS-IRRADIATION AND ACTIVATION, REACTOR PHYSICS, COOLANT CHEMISTRY, HEAT TRANSFER STUDIES - SUMMARY HIGH ENERGY PHYSICS AND NUCLEAR STRUCTURE -N63-15502 COMPLEX NUCLEI, HIGH ENERGY ELECTRON SCATTERING, PIONS, NUCLEONS, DEUTERONS, AND MUONS NIOBIUM-BASE ALLOY FOR USE IN NUCLEAR SUPERHEATER PROJECT N63-21196 22-18 BMI-1636 N63-21714 NUCLEAR STRUCTURE AND HIGH ENERGY NUCLEAR PHYSICS N63-23464 NUCLEATION CF CONDENSATION PYROLYTIC GRAPHITE WHISKERS N63-11293 03-19 NUCLEAR SUBMARINE ATMOSPHERE - DRGANIC CONTAMINANT ANALYSIS - REMOVAL BY CATALYTIC COMBUSTION AND CARBON ADSORPTION - CLOSED ECOLOGICAL SYSTEM CLOSED LOOP HEAT TRANSFER APPARATUS FOR TESTING HONOPROPELLANTS

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STUDY OF BUBBLE INITIATION, GROW DEPARTURE TO COMPUTE HEAT TRANSF		AM 2	ORNL-3429 Jauges da testificado politica.		
	N63-14214	09-13	EXCITED STATES OF THE NUCLEON	S ROSE MOTTARS	DAS.
HEAT EXCHANGE IN NUCLEATE BOILING		11-13	HIGH ENERGY PHYSICS AND MUCLEAR COMPLEX NUCLEI, HIGH ENERGY ELE	STRUCTURE -	69H
EFFECT OF MULTI-G ACCELERATIONS (BOILING EBULLITION NASA-TN-0-1196	ON NUCLEATE	12-13	PIONS, NUCLEONS, DEUTERONS, AND CERN-63-28 JANE 34 (251103 14	MUONS	
NUCLEATE BOILING CHARACTERISTICS	AND CRITICA	L HEAT	PION-PION RESONANCES FROM PION- INTERACTIONS UCRL-10731	NUCLEON THELA	STIC 24-23
COOLED REACTOR SYSTEMS	N63-16483	14-13	NUCLEON-NUCLEON SCATTERING	ECT OF ANGULA	024
NUCLEATION OF PEARLITE IN IRON CO	>36721/931JA#	MINDS -	ANGULAR MOMENTUM IN HIGH-ENERGY SCATTERING UCRL-10331	N63-22355	23-23
ASD-TDR-62-479, PT. I	N63-18186	16-18	NUCLEON-NUCLEON COLLISIONS	N63-23462	24-23
EFFECT OF NUCLEATION OF SURFACE STABILITY AND FRACTURE MECHANICS NASA-CR-50420	OF BERYLLIU N63-18411	M 25-17	NUCLEOSIDE CONTRACTOR OF THE STATE OF T	INV STREET THE	1
CONDENSATION IN ROCKET NOZZLE FLONUCLEATION	N63-18575	17-07	CF NUCLEIC ACID CF RIBONUCLEIC ACID THYMIDINE, HEMOGLOBIN, AND ERYT INVESTIGATION OF ERYTHROPOLESIS	HROPOIETIN US	ED IN
CLEIC ACID F CHROMOSOME	SOME SPEEDS		PERFORM S MAN EGMACHINE	N63-23297	
F NUCLEGIDE CELL DIFFERENTIATION AND NUCLEIC MATURATION OF ERYTHROBLASTS	ACIDS VIEWE	D FROM	NUCLEOSYNTHESIS ORIGIN OF HEAVY ELEMENTS AND IR NUCLEOSYNTHESIS	ON METEGRITES	MOS MAZVE IOUR
NUCLEIC ACID IN BIOSYNTHESIS OF JPRS-20255	PROTEINS N63-19819	19-16	MUCLEOTIDE	N63-10335	QASS.
NUCLEIC ACID CONTENT OF NERVE CE FUNCTIONAL STATES FROM CYTOPHOTO JPRS-20868	METRIC METHO N63-20663	20-16	SA POLYNUCLEOTIDE OF RIBONUCLEIC ACID- PYRIDINE NUCLEOTIDE OXIDASES AN IN ACCLIMATIZATION TO HIGH ALTI SAM-TOR-62-88	D TRANSHYDROG	ENASE
CLEON STANDARD ERRORS OF COSMIC RAY DA ATMOSPHERIC EFFECTS AFGRL-62-651	SERSOLABITES	03160	EFFECTS OF COLD ACCLIMATIZATION TRI-PHOSPHOPYRIDINE NUCLEOTIDES AAL-TDR-62-40	ON LIVER DI-	AND
COSMIC RAY INTENSITY VARIATIONS	DE LONG BOOK E	AUCS ORGET	HYDROLYSIS AND CHROMATOGRAPHIC DERIVATIVES AND COMPOUNDS OF 3-	BEHAVIOR OF	1138 101
NUCLEON-MESON CASCADE CALCULATIO SHIELDING FOR HIGH ENERGY ELECTR INCLUDING COMPUTER CODE FOR NUME ORNL-3289	ON ACCELERAT	OR	OLIGONUCLEOTIDE ACETYLS & TETRA LA-2923 LANGE SO 10330 KT MARKET SA 1000-000 NUCLEUS	N63-22907	23-07
NUCLEON-MESON CASCADE CALCULATIO	NS AND SHIEL	DING	ENERGY DEPENDENCE OF FRAGMENTAT NUCLEI IN INTERSTELLAR SPACE NYO-10249		02-28
ORNL-3406	N63-12990	07-23	HIGH ENERGY BREMSSTRAHLUNG FROM		US II
NUCLEON-MESON CASCADE CALCULATIO TRANSVERSE SHIELDING FOR 45-GEV	NS - PART 2, ELECTRON	TAKE.	UCRL-7001	N63-12423	06-23
ACCELERATOR ORNL-3365	N63-13250	07-23	PHOTOPROTONS EMITTED FROM LIGHT		UCLEAR
VARIATIONS IN THE COSMIC-RAY NUC AFCRL-63-242			SHELL STRUCTURE MAY PARAGRAPT OF	N63-12743	
SINGLE-NUCLEON DAMPING OF VIBRAT			ENERGY FLUX OF HEAVY NUCLEI IN	3.376	-RU3
OVER GIANT DIPOLE ENERGY RANGE	N63-14975	11-23	SWEETEN CONSTRUCTION SWEETEN CONSTRUCTIONS SWEETEN CONSTRUCTIONS		07-12
MONTE CARLO METHOD FOR NUCLEON TO	RANSPORT THE	LOUGH	SPHERICAL NUCLEI WITH SIMPLE RE HAMILTONIAN & MAYE FUNCTIONS, E NUMBERS, BETA DECAY	NERGY LEVELS, N63-15727	MASS 12-23
LOW NUCLEON MOMENTUM TRANSFER CO PION INTERACTIONS	TOURS DESERBE	-196	NUCLEAR GROWTH AND OTHER SCALIN CAVITATION INCEPTION	G FACTORS IN	
ANGULAR AND ENERGY DISTRIBUTION	N63-15889 IN PI-NUCLEO	13-23 IN	OF ENERGIES OF GROUND STATES AN	D EXCITED STA	ATION TES OF
SYSTEM AT 365 AND 432-MEV UCRL-10585	N63-16036	13-23	MUCLEI ARL-63-610 DE PORTENDAR MINUSTAN		
INCLASTIC COLLISION OF PIONS AND UCRL-10720		15-23	GROWTH OF NUCLEI AND RELATED SC CAVITATION INCEPTION	MA3-16348	
HIGH ENERGY KAON-NUCLEON SCATTER WAVE AMPLITUDES IN CROSS CHANNEL UCRL-10834	S PE	18-09	ELECTRIC PROPULSION - ELECTROTH STATIC, ELECTROMAGNETIC, AND HE SYSTEMS	ERMAL, ELECTR	

NUCLEAR INTERACTION OF 900 MEV ALPHA PARTICLES IN STUDY OF HELIUM NUCLEI AS PROJECTILES

FORTRAM PROGRAM FOR CALCULATING NUCLEON SCATTERING FROM NONLOCAL OPTICAL POTENTIAL

N63-11701

04-20

02-11

05-08

07-33

07-03

08-20

10-20

11-20

11-20

11-20

12-23

12-20

15-20

CF CF

N63-18146 NYD-10269 16-23 CERENKOV-SCINTILLATION COUNTER MEASUREMENTS OF LIGHT, MEDIUM, AND HEAVY NUCLEI IN PRIMARY COSMIC RADIATION FROM SUNSPOT MINIMUM TO SUNSPOT MAXIMUM MEASUREMENT OF GIANT SULFATE CONDENSATION NUCLEI QUANTUM MECHANICAL COLLECTIVE MODEL OF NUCLEUS ROTATION, VIBRATION, AND HYDRODYNAMIC DIPOLE OSCILLATION - MODEL UNIFICATION 18-24 EFFECT OF ANGULAR MOTION OF NUCLEUS ON RATIO OF ISOMERS, TE-119 & METASTABLE TE-119, FORMED BY LOW-ENERGY ION BOMBAROMENT 21-25 INTERACTION AND ABSORPTION PARAMETERS FOR HEAVY COSMIC RAY NUCLEI IN HYDROGENOUS ABSORBERS -POLYETHYLENE AND TETRAFLUOROETHYLENE N43-21376 22-28 CAPTURE OF NEGATIVE PIONS FROM REST BY LIGHT NUCLEI INVESTIGATED BY MEANS OF SHELL MODEL N63-21699 22-23 NYO-10278 NUCL TOP CONTAMINATION & DECONTAMINATION OF WATER-COOLED, LOW TEMPERATURE REACTORS - DEPOSITION OF RADIO-NUCLIDES ON ALUMINUM RAPID RADIOCHEMICAL METHOD FOR SEPARATING ANTIHONY AND ARSENIC FISSION PRODUCTS FROM THEIR NUCLIDES USARDL-TR-607 TIME CORRELATION TECHNIQUE FOR INVESTIGATING TWO CONNECTED NUCLEAR TRANSFORMATIONS - RADIOACTIVE DECAY ARGD-2543-8 QUANTITATIVE ANALYSIS OF MULTICOMPONENT PULSE-HEIGHT SPECTRUM FROM DECAY OF RADIONUCLIDES HYDRODYMAMIC HODEL OF RADIOACTIVITY - EQUATING RATE OF WATER FLOW WITH DECAY OF RADIONUCLIDE AEET-AMAL -- 6 16539 1 RADIOACTIVE NUCLIDES IN CHONDRITIC BRUDERHEIM METEORITE AND OTHER STONY METEORITES NASA-CR-50181 M63-17153 15-12 COSMIC RAY INDUCED STABLE AND RADIOACTIVE NUCLIDES IN METEORITES NASA-TH-0-1844 N63-17550 16-05 RADIATION THERAPY OF MALIGNANT DISORDERS USING TOTAL BODY IRRADIATION - USE OF MEDICAL NUCLIDES, RADIOSOTOPES, AND TRACERS N63-18744 17-16 SELF-ABSORPTION IN PURE BETA EMITTERS - MUCLIDES N63-19228 18-25 EUR-338.E TRANSPORT OF RADIONUCLIDES IN FRESH WATER SYSTEM N63-23783 24-23 T10-7664 MULL HYPOTHESIS CF STATISTICS TABLE OF MEAN SQUARE EXPECTATIONS & VARIANCE RATIOS FOR TESTING NULL HYPOTHESES IN ANALYSIS OF VARIANCE FOR 2, 3, 6 4-WAY CROSSED CLASSIFICATION NML-1833 N63-14721 11-20 ESTIMATION IN NULL-ZONE RECEPTION FEEDBACK SYSTEMS AFCRL-62-742 MA3-10472 02-08 ATMOSPHERIC MODEL OF NONTROPICAL LATITUDES - NULL LAYER, OZONE LAYER, AND MAGNER-LINKE LAYER

KNUDSEN NUMBER

LEWIS NUMBER MACH NUMBER MASS NUMBER PEGLET NUMBER QUANTUM NUMBER REYNOLDS NUMBER RICHARDSON NUMBER NUMBER THEORY NUMBER THEORY - THEOREM PROOFS BY MACHINE

NUMERICAL ANALYSIS

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DEVELOPMENT AND ANALYSIS OF COMPRESSIBLE, INVISCIB

FLOW THEORY USING THE THREE INDEPENDENT VARIABLE N63-10729 USING A NUMERICAL MAP OF IONOSPHERIC CHARACTERISTICS - COMPUTER METHODS M63-12210 NUMERICAL INTEGRATION PROCESS TO DETERMINE AERODYNAMIC FORCES AND USE OF AIR FORCES TO COMPUTE FLUTTER BOUNDARIES IAS PAPER-63-22 NUMERICAL LIFTING-SURFACE METHOD TO CALCULATE DIRECT GUST FORCES AND MOMENTS ON WINGS AT SUBSOMIC SPEEDS NASA-TN-0-1501 NUMERICAL SOLUTION OF PROBLEMS ALLOWING MIXED BOUNDARY CONDITIONS - ELLIPTIC PROBLEMS, DIRICHLET PROBLEMS NUMERICAL ANALYSIS OF SMALL FINITE AXISYMMETRIC DEFORMATION OF THIN SHELLS OF REVOLUTIO ERR-AN-153 N63-13964 MATHEMATICAL AMALYSIS OF COMPLEX SYSTEMS - QUEUING THEORY, LAMCHESTER THEORY OF COMBAT, GAME THEORY, NUMBERICAL METHODS, SIMULATION AND MARROY MODELS AFCRL-63-38 09-20 EQUATIONS FOR COMPUTING NUMBER DENSITY MATIOS FROM TEMPERATURE PROFILES GCA-TR-63-2-A M63-14362 NUMERICAL ANALYSIS FOR PREE-MOLECULE IMPACT-PRESSURE RELATION FOR CIRCULAR TUBES OF ZERO ANGLE OF ATTACK UTIA-88 N63-14866 NUMERICAL ANALYSIS OF EULERIAN HYDRODYNAMIC EQUATIONS FOR SUPERSONIC COMPRESSIBLE FLUID FLOW LAMS-2026 N63-14962 11-MATHEMATICS - MUNERICAL ANALYSIS, MEDICAL STATISTICS, AND PROGRAMMING M63-15047 DENDING OF ELASTIC PLATE WITH IRREGULAR EDGE SHAPE WUMERICAL SOLUTION BY FINITE DIFFERENCE METHOD WASD-230 M63-15206 11-33 NUMERICAL ANALYSIS OF EFFECT OF NUCLEAR REACTOR PLANT CHARACTERISTICS ON REACTOR CORE POWER DISTRIBUTION - REACTOR TECHNOLOGY NUMERICAL ANALYSIS OF MATRIX USING ITERATIVE SOLUTION FOR IMPROVING RESULT OBTAINED BY GAUSSIAN ELIMINATION N63-15317 JPL-TR-32-394 APPLICATIONS OF FACTORIAL CALCULUS TO GENERAL UNEQUAL NUMBERS ANALYSIS SUPERSONIC FLOW FIELD ABOUT A BODY OF REVOLUTION NUMERICAL SOLUTION FOR CHARACTER INPEDANCE SQUARE COAXIAL LINE BY DIGITAL COMPUTER 863-17078 HUMERICAL ANALYSIS OF ADAPTIVE CONTROL SYSTEMS -

CALAN ANAL-EON

GUIDANCE SYSTEMS	N63-18696	17-29	MUTRIENT CONTENT OF VARIOUS ALGAE AND ITS ADEQUACY
NUMERICAL ANALYSIS OF FUNCTIONS VARIABLES - GUIDANCE SYSTEMS	WITH INDEPEN N63-18697	17-20	A PANISHED SEE MY KROTAVADERO THERAM MOST LAS BONO 03-16
TENSOR CODE - CYLINDRICALLY SYMM			NUTRITIONAL ASPECTS OF MANNED SPACE FLIGHT
UCRL-7916 AND RECORDED TO SURGE		18-23	PLANTS AS GAS EXCHANGE MECHANISM FOR CLOSED
NUMERICAL ANALYSIS OF EARTH-MOON AIAA PAPER-63-150	N63-19473	19-29	ANNE THE SECOND CHA SECOND THE PROTATION NOT
NUMERICAL SOLUTIONS OF LINEAR IN	TEGRAL EQUAT	TIONS	SPACE LIFE SUPPORT SYSTEMS FOR LONG AND SHORT FLIGHTS - NUTRITIONAL PROBLEMS
USING ON-LINE COMPUTATION - COMP RADC-TOR-63-307	N63-19881	19-20	14. 111 CAALEM TO COMMISSION THE 463-21500 22-16
APPROXIMATE NUMERICAL SCHEME FOR			PROTEINS AND NUTRITION - METABOLIC PATHWAYS FOR PROTEINS & AMINO ACIDS
FLOWS PAST SUBMERGED BODIES OF A HYDROFOIL WAKE	N63-20312	20-11	ARRL-TDR-63-77
COMPUTER PROGRAM FOR IONOSPHERIC NUMERICAL METHODS	HAPPING BY	030=000	CF FIBER CF TO THE TOTAL THE STATE OF THE ST
NBS-TN-181702-000 MI SMBITIZMAST	N63-20686	20-12	CF SYNTHETIC FIBER INVESTIGATION IN ATMOSPHERE ENTRY SIMULATOR OF
NUMERICAL PROCEDURE FOR GENERATI DRAG, SUPERCAVITATING AXISYMMETR INFINITE TRAILING CAVITIES			NYLON AS ABLATIVE MATERIAL FOR BALLISTIC MISSILES NASA-TH-X-114 N63-13893 09-19
NR-062-265 TA 138MA CMARTEL NA	N63-22337	23-02	GAMMA RAY PHOTOCONDUCTIVITY IN DRGANIC DIELECTRIC MATERIALS AND COMPOUNDS
FLUID FLOW PROBLEMS BY COMPUTER	METHOD	mix no	SCOC-2580
NUMERICAL ANALYSIS OF DIRECT NUC	N63-22478	23-11	TENSILE IMPACT ON RUBBER AND NYLON - IMPULSE MAYE PROPAGATION AND CREEP IN POLYMERIC MATERIALS - STRUCTURAL DYNAMICS NG3-16617 14-19
ELECTROGENERATOR CELLS USING CER EMITTING RADIDISOTOPE SDURCES		9445 9445	VISIBLE RADIATION FROM NYLON PROJECTILES IN AIR.
NASA-TH-D-2070	N63-23683	24-23	NITROGEN AND CARBON DIOXIDE NOLTR-63-153 N63-22189 23-19
NUMERICAL INTEGRATION OF CHEMICA	L AND VIBRA		RADIATION SURROUNDING SPHERES OF NYLON, LEXAN &
RATE EQUATIONS IN NEAR EQUILIBRI AEDC-TDR-63-82	N63-14314	10-11	KEL-F IN AIR, NITROGEN & CARBON DIOXIDE DETECTED BY MULTIPLIER PHOTOTUBE SYSTEM
SPACECRAFT GUIDANCE - NUMERICAL			HOLTR-63-154 HTEM MARGO NA ME MOI M63-22492 2023-19
COMPUTER METHOD EULER-CAUCHY METHOD FOR NUMERICA	N63-16810	14-20	AROUSAL AND ITS EFFECTS ON HUMAN VESTIBULAR
PARTIAL DIFFERENTIAL EQUATIONS	NA3-10307	18-20	ANGULAR ACCELERATIONS
NUMERICAL INTEGRATION OF NONEQUI	AN MALEMBAN		DAN-192 TO A TOWNERS STORE TO THE STATE OF T
PLOW OVER CONES & MEDGES MASA-TH-0-1942	N63-19608	19-11	OPHERIC CALIBRATION OF ORIGINAL RESISTANCE OF CARACTERS CALIBRATION OF CARACTERS CARACTERS CALIBRATION OF CARACTERS CALIBRATICS
NUMERICAL INTEGRATION OF ORDINAR	munaa aasa	2 and 2	PERTURBATION OF HYPERBOLIC ORBIT BY OBLATE PLANET AND ESCAPE HYPERBOLA FROM EARTH
EQUATIONS - SOVIET DATA PROCESSI	NG N63-21091	21-20	JPL-TR-32-131 N63-15281 12-29
NUMERICAL TECHNIQUES FOR SOLUTION			COMPUTER APPLICATION TO FLAT EARTH PROBLEM WITH ANALYTICAL FUNCTIONS - GUIDANCE SYSTEMS
BHATNAGAR-GROSS-KRODK KINETIC EQ SHOCK WAVES		120.202	MOSTARD CAS SATRAM M63-18700 17-20
NASA-CR-51234	N63-21358	22-11	PARAMETRIC FORMULA FOR GEODESIC CURVES AND DISTANCES ON SLIGHTLY ORLATE FARTH
NUMERICAL INTEGRATION OF THE NAV EQUATIONS FOR SHOCK WAVE STRUCTU	RE PROBLEMS	80 / 43 739 A3	AFCRL-63-485 N63-19720 19-12
EADING FORE RABIUS AND SMEETPRECKCHM EADING FORE MORTICES BY AMOUNTARY	N63-23771	24-23	S CELESTIAL OBSERVATION
F DIET		INTER INTER	S RADIO ECHO OBSERVATION
REQUIREMENTS AND FUNCTIONS OF MI	CRONUTRIENTS		S RADIO OBSERVATION S, SATELLITE OBSERVATION
GREEN PLANTS WITH RESPECT TO PHO	TOSYNTHESIS	03-16	OBSERVATION AIRCRAFT SPIN OF SCALE HODEL UNSWEPT WING, TWIN-ENGINE,
AN ANAEROBIC THERMOPHILIC BIOLOG		* in the h	OBSERVATION AIRCRAFT
DIGESTER	N63-11480	03-16	NASA-TN-D-1516 N63-12243 05-04 OBSERVATORY MURO RETAINABLE AND ENTIRE AND ENT
ANIMAL NUTRITION STUDIES - CHLOR	N63-11483	P000 03-16	SA ADVANCED ORBITING SOLAR OBSERVATORY /AOSO/
NUTRITIONAL VALUE OF ALGAE GROWN CONDITIONS	N63-11484	03-16	SA CCENTRIC GEOPHYSICAL OBSERVATORY /CGO/ SA ORBITING SOLAR OBSERVATORY /CGO/ SA POLAR ORBITING GEOPHYSICAL OBSERVATORY /POGD/
FUNGI AS A NUTRIENT SOURCE - PRO	N63-11485	03-16	SA SOLAR DESERVATORY METWORK OF ASTROPHYSICAL METEORITE DESERVATORIES
ENZYMATIC DIGESTION OF ALGAL CEL	LS N63-11487	8801 8601	TOTAL CHARACTER OF THE PROPERTY OF STATEMENT NOS-15615. 12-05
THAT TARTE-EON	H03-11487	03-16	OBSERVATORY FOR DETECTION OF WHISTLERS AND ATROSPHEATC-ENTITIED VERY LOW FREQUENCY RADIO MAYES

D D S D D M M K C D T A A E E E M B B A A N B B N N N

OIL S OLEF G F A

ONIC

CHINE

OF PARTOLS WORK WAS THE ACTIVATED BY THE PARTOLS OF	N63-18224	17-10	ANTARCTIC RESEARCH PROGRAM - BIOLOGY, GEOLOGY	USE
BUDKOV EARTH CURRENT OBSERVATORY	IN CZECHOS		GLACIOLOGY, METEOROLOGY, AND OCEANOGRAPHY NSF-63-14 N63-18169	16-12
SMITHSONIAN ASTROPHYSICAL OBSERV	ATORY PROGR		OCEANGRAPHY AND UNDERWATER STUDIES JPRS-21162 N63-22032	22-01
SERVOSYSTEMS WITH SPHERICAL-COOR FOR OBSERVATORY TELESCOPE AND DO FTO-TY-62-1194/18284	DINATE CONV	ERTERS S	METEOROLOGY & HYDROLOGY - COMPUTER USAGE, EAR ATMOSPHERIC RADIATION BALANCE, MEAT BALANCE, MATER REGULATION AND OCEAN SURFACE RADIATION JPRS-20716 N63-22097	
OCCULTATION STUDY OF PLANETARY ATMOSPHERES R	Y STELLAR		ATMOSPHERIC. OCEANOGRAPHIC & GEOHYDROLOGIC ST RELATED TO NUCLEAR ROCKET FLIGHT N63-22308	UDIES
OCCULTATION RM-3279-JPL	N63-11322	03-05	WITHIA OF RECENT OFF THIRD INTEREST STATISTICS	23-16
OCCULTATION EQUATIONS FOR GEODET ERROR ANALYSIS AMS-TR-46	IC SURVEYING	micro (Ve)	LARGE ENVIRONMENTAL TELEMETERING SYSTEM FOR OCEANOGRAPHIC AND WEATHER STATION UTILIZATION NRL-5902 N63-22663	23-06
AMS-TR-46	N63-18152	16-12	ODO-ODO NUCLEUS	
NAVIGATION OF LUNAR VEHICLES - O LUNAR PHOTOMETRY LYMAN ALPHA AND AND TERRESTRIAL OCCULTATIONS OF	THE LUNAR	LIMB,	ELECTROMAGNETIC TRANSITIONS IN ODD-OOD DEFORM NUCLEI N63-13945	09-23
GCA-TR-62-24-A OCCULTATION OBSERVATIONS IN JAPA	N63-21173 N DURING 19	21-22 55	OFF-DESIGN OFF-DESIGN AERODYNAMIC CHARACTERISTICS OF SWE ARROW MINGS WITH TWIST AND CAMBER AT SUPERSON	PT
COMPUTED IN EPHEMERIS TIME	0677		VELOCITIES NASA-TN-D-1630 NASA-TN-D-1630	08-03
LUNAR OCCULTATION OF TAURUS A & SOURCES - HIGH RESOLUTION ANGULA DISTRIBUTION NBS-TN-184	R BRIGHTNES	S	OGIVE CF BODY OF REVOLUTION	J.FY-
11-jan taling with	CHIED-CINNELL	24-08	CF ELLIPSOID CF SPHERE	P0.598
SA ARCTIC OCEAN SA ATLANTIC OCEAN	COPAL MARINES		CF SPHERE EFFECT OF FINS ON STABILITY OF BODIES OF REVOLUTION WITH TANGENT OGIVES AT SMALL ANGLE ATTACK, MACH 0 TO 3.5 ADMC-PE-TO-2.2. PEV. MA2-10715	S UF
SA PACIFIC OCEAN MINIMUM TIME TRACT DATA IN AIRHA			AGMC-RF-TR-62-1, REV. N63-10715	02-0
OF LONG RANGE AND OVER-OCEAN ROU AD-294393	MAX-14105		EFFECT OF FABRICATION TYPE SURFACE ROUGHNESS BOUNDARY LAYER TRANSITION - TESTS ON OGIVE	ON
ACOUSTIC RADIATION IN AN OCEAN N AND THERMAL MIXING ZONES		URCES	AT A CONTRACTOR AND A STATE OF THE STATE OF	17-0
NWL-1854 SEISMONETER MEASUREMENT OF SEISM		16-23 DEED	TANGENT OGIVE BODY OF REVOLUTION	19-13
OCEAN FLOOR AFCRL-63-250	CHATAINE Hely	16-21	HEAT TRANSFER BY RADIATION OF AN OGIVE AND	592
DYNAMIC CALIBRATION OF OCEAN WAY CAPACITANCE, AND SONIC PROBES		E,		22-13
TO A STATE OF THE PROPERTY OF THE PARTY OF T	N63-22120	22-11	OGO S ORBITING GEOPHYSICAL OBSERVATORY /OGO/	
GCEANOGRAPHY		1 (1909) 1-111L	CANADA CASA TO SERVICIONARY ATAM STRUCTURE IN COMPLETO	
HIGH FIELD MAGNET FACILITY - NEU STUDIES - OCEAN RESEARCH FACILIT RESEARCH	Y - MATERIA		OMMIC HEATING MODEL C STELLARATOR, SMALL DEVICE RESEARCH, THEORETICAL PLASMA PHYSICS	MLW.
AEROMAGNETIC AND MARINE EXPLORAT	TON		MATT-Q-20 N63-14040	
JFRS-16568	N63-10979	02-21	OIL as assessment according	
SOVIET-BLOC RESEARCH IN GEOPHYSI SPACE SCIENCES /NO. 29/ 1962 JPRS-12445	Designation of the second	03-01	CF FUEL CF HYDRAULIC FLUID CF LUBRICANT CF PETROLEUM	NVR USSS
UNDERWATER SOUND PROPAGATION - O SOUND FIELD, OCEAN MODEL	CEANOGRAPHY	AND THE	INFLUENCE OF LEADING EDGE RADIUS AND SWEEPBAG DEVELOPMENT OF LEADING EDGE VORTICES BY ANALY WING SURFACE OIL FLOW PATTERNS	X ON ZING
GEOMAGNETISM AND GEOELECTRICITY	IN OCEANS A		CP-583 N63-11925	
MASA CONSIDERS DATA COLLECTION S	M63-12137		COMPATIBILITY TESTS OF MASTELLOY X IN OIL- CONTAMINATED COOLANT GASES AGN-TM-401 N63-13305	07-16
OCEANOGRAPHIC & METEOROLOGICAL A			SYNTHESIS OF LOW-TEMPERATURE OIL-RESISTANT	HA
REINFORCED PLASTICS FOR UNDERWAT DEEP SUBMERGENCE CONSTRUCTIONS	ER DRONANCE	AND	URETHANE ELASTOMERS M63-13316 LUBRICANT RELAXATION EFFECTS IN OIL FILM THIC	07-01
MOLTR-62-206	HERREIGH TURINERSHIL	10-34 OF	BETWEEN INVOLUTE GEAR TEETH - SQUEEZE FILMS, VISCOELASTICITY, SURFACE DEFORMATION & ROUGHN	ESS
RAYLEIGH WAVE	M63-14606	10-12	OIL - DEVELOPMENTS IN AIRCRAFT ENGINE LUBRICA	MTS
ARCTIC OCEAN HYDROGRAPHY - BEAUF AID IN OCEANOGRAPHY	ORT SEA - A N63-14764	IRCRAFT 11-21	N63-17645 LUBRICATING OIL FOR TURBOSHAFT ENGINES. HELIG	
OCEANOGRAPHY AND CLIMATOLOGY OF EASTERN ARCTIC	SEA-ICE GRO		TRANSMISSIONS AND TURBOPROP ENGINES N63-17847	16-17

TURBINE ENGINE PERFORMANCE VERSUS DEPOSITS	LUBRICANT		CF INLETATEL COR	25122
DEPOSITION TESTS SIMULATING THERM STRESSES IN JET ENGINES FOR DIL I	MAL AND OXID	ATION	OPERATION S FISHBOUL OPERATION S PREFLIGHT OPERATION	525
DEPOSITS METAL PARTICLE CONTENT IN LUBRICA METHODS OF ANALYSIS KN-676-1/PR/		16-17	OPERATIONAL CALCULUS OPERATIONAL CALCULUS OF FACTORIAL DESIGN FOR ANALYSIS OF BLOCK AND PRODUCT DESIGN N69-14514	
OIL BACKSTREAMING THROUGH VACUUM TEMPERATURES AEDC-TDR-63-149		OGENIC	OPERATIONAL PROBLEM OPERATING PROBLEMS AND AERODYNAMIC CHARACTERIS OF TILT DUCT, FIXED WING, VERTICAL TAKEOFF AND LANDING AIRCREFT	TICS
EFFECTS OF SPACE VACUUM ENVIRONME ELECTRONS, ELECTROMAGNETIC RADIAN METALS, PLASTICS, CERAMICS, OILS	TION AND ION	IS ON	NASA-TN-D-1802 N63-18658 I RANGER PROJECT OPERATIONAL PREPARATIONS N63-19539	65
DIFFUSION PUMP OILS IN CRYO-BAFFI BACKSTREAMING ANALYSIS AEDC-TDR-63-174	ED SYSTEMS N63-19424	19-11	FLEXIBLE SPACE VEHICLE SYSTEM TO EXPLORE PROBL OF MANNED OPERATION IN SPACE - GEMINI PROGRAM N63-23206 2	24-32
MINIMUM OIL FLOW REQUIREMENTS OF BEARINGS NASA-TN-0-1994	HIGH-SPEED N63-22713	BALL 23-17	OPERATIONS RESEARCH MODES OF INQUIRY AND RESEARCH TASKS FOR GENERAL SYSTEMS ANALYSIS	AL
DYNAMIC SURFACE PHENOMENA IN SPO SPREADING OF DILS ON SOLIDS NRL-5963	N63-23774	24-17	DRY GAS OPERATION OF BALL BEARINGS AT CRYOGEN TEMPERATURES R-201 N63-17138	10
OIL BATH PRECISION TEMPERATURE CONTROL OF SCTM-71-63/24/	angles, casp	BATH 12-11	CONCEPTS AND THEOREMS IN CAPACITY CONSTRAINED HETWORKS — COMBINATORIAL APPLICATIONS OF NETWI FLOW THEORY — OPERATIONS RESEARCH	KN 2-25
OLEFIN GEOMETRY OF INTERMEDIATE FREE RAI FROM PRODUCTS OF FREE RADICAL CYC ADDITION TO AN OLEFIN	DICAL INFERS	RED COHOL		0F 20-10
AROD-2786-2 SELENIUM DIOXIDE OXIDATION OF OLI	N63-13375 EFINS N63-23594	24-07	CONTROL OF RADIO & RADAR INTERFERENCE BY JUDI ASSIGNMENT OF OPERATING FREQUENCIES - OPERATION RESEARCH	ONS
OMICRON CETI STAR INFRARED SPECTRA OF STARS AND PLA MATER IN OMICRON CETI		11. 11-05	III-RI-5177-FR M63-23131 11 OPERATOR SA BERGMAN OPERATOR	ADS-023
OMNIDIRECTIONAL RADIO RANGE AIRCRAFT INSTRUMENT FOR WARNING WITH OMNIDIRECTIONAL RADIO RANGI	PILOT OF COL NG N63-15530	12-15	SA DIFFERENTIAL OPERATOR SA HERRITIAM OPERATOR SA LINEAR OPERATOR SA SELF-ENERGY OPERATOR GENTLE PERTURBATIONS - MATHEMATICAL OPERATORS IMM-NYU-295 N63-11622	90
CME-DIMENSIONAL FLOW FORTRAN COMPUTATION OF REACTOR FO DIMENSION DP-804	LUX SHAPES 1	IN ONE	OVERRELAXATION METHOD FOR OPERATOR EQUATIONS NVO-9192 N63-11802	
THO-BODY PROBLEM OF CLASSICAL ELI ONE DIMENSIONAL CASE MRC-332	ECTRODYNAMIC	130	IRREDUCIBLE REPRESENTATIONS OF GENERALIZED OSCILLATOR OPERATORS USED IN FIELD QUANTIZATI NYO-10253	07-23
ONE-DIMENSIONAL HYDROMAGNETIC FL MAGNETIC FIELD - SIMPLE WAVE FLO CHANNEL WITH SMALL AREA VARIATION	N AND FLOW	NSVERSE IN	PARTICULAR SOLUTIONS OF LINEAR PARTIAL DIFFERENTIAL EQUATIONS USING INTEGRAL OPERATO METHOD - ALGOL COMPUTER PROGRAM N63-15523	Ra La
COMPUTER PROGRAM OF PLASMA STABIL DIMENSIONAL FLOM TRAJECTORY	values of continues of	COLUMN TO THE REAL PROPERTY AND ADDRESS OF THE PERTY ADD	SPECTRAL FUNCTIONS OF SYMMETRIC OPERATOR MRC-397 N63-16591	
ONE-DIMENSIONAL NOZZLE FLOW OF G	N63-14997 AS-PARTICLE N63-15300	11-24	PARTIAL DIFFERENTIAL EQUATION SOLUTIONS BY BE INTEGRAL OPERATOR NOLTR-63-124 N63-19654	
ONE-DIMENSIONAL FLOW OF CONDUCTI CROSSED, LONGITUDINAL ELECTRIC A MAGNETIC FIELDS - HALL EFFECT		SE	APPROXIMATE SOLUTIONS OF INTEGRAL AND OPERATO EQUATIONS MRC-407 N63-22647	23-20
BESSEL FUNCTION SOLUTIONS TO ONE	N63-10727 -DIMENSIONAL	17-11 L GAS	NILPOTENT OPERATORS, JORDAN CANONICAL FORM, S CHARACTERISTICS, AND MINIMAL POLYMOMIALS M63-22742	23-20
ONE-DIMENSIONAL POROUS ELECTRODE	FLOW MODEL	24-13	OPERATOR PERFORMANCE CORIOLIS EFFECTS ON OPERATOR MOVEMENTS IN	07-16
NASA-CR-52185 OPENING CF GAP		24-06	DESIGN AND DEVELOPMENT OF REAL-TIME PSYCO- PHYSIOLOGICAL AND ENVIRONMENTAL MONITORING SYSTEM - CAPABILITY OF OPERATOR TO PERFORM HI	SSION

OPT

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N63-10352		BIBLIOGRAPHY OF SOLID STATE MASER MATERIALS, GAS MASER, AND OPTICAL MASER
INFORMATION NECESSARY FOR EFFICIENT OPERATION MODERN WEAPON SYSTEMS AND OPERATOR PERFORMANC AMRL-TOR-02-115/II/ N63-22596	E	ASD-TDR-62-1026 N63-14768 11- PHOTODISSOCIATION OF MOLECULES FOR EXCITATION OF
OPHTHALMOLOGY		OPTICAL MASER AFOSR-2251 M63-15413 12-;
OFFICAL INSTRUMENT		GEOMETRICAL OPTICS OF MULTIREFLECTOR OPTICAL RESONATORS — CONDITIONS FOR STABLE OPERATION —
CF INFRARED SPECTROPHOTOMETER CF INTERFEROMETER CF PERISCOPE		OPTICAL MASERS AND LASERS AFCRL-63-115 N63-16686 14-
GAS CELL PHASE SHIFTER USED AS OPTICAL SURVEILLANCE DEVICE EOS-2230-Q-2 N63-10512	01-15	WATER VAPOR ABSORPTION WITH HELIUM-NEON OPTICAL MASER N63-18287 17-
OPTICS DEVELOPMENT FOR 43-INCH LUNAR TELESCOP PYROMETER DEVELOPMENT FOR LUNAR TEMPERATURE		IONIZATION OF GASES BY OPTICAL MASER RADIATION N63-18288 17-
MEASUREMENT AFCRL-62-1100 M63-11018	03-29	ABSOLUTE LIGHT INTEMSITIES OF SPECTRAL LINES BY PHOTOELECTRIC METHODS - OPTICAL MASER APPLICATION
THO-DIMENSIONAL FILTERING TECHNIQUE, OPTICS,		AROD-3323-2 N63-19405 19- OPTICAL MASER CONDITION FOR RESONANT BODIES AND
INTERFEROMETERS, FILTERS, AND A READOUT SYSTE N63-11864		KINETICS OF SOLID STATE MASER RAE-TRANS-1037 N63-20995 21-
COHERENT OPTICAL SURVEILLANCE DEVICES EOS-2230-Q-3 N63-11989	05-23	MICROWAVE RESEARCH - ACOUSTIC WAVE AMPLIFICATION OPTICAL MASERS, FERRITE MONLINEAR PROPAGATION
REALIZATION OF AN OPTICAL PERIODOGRAPH - APPLICATIONS TO THE STUDY OF THE FUNCTIONS OF	na T	ML-1060 N63-22911 23-
TRANSPARENCY N63-13190 AMNA-1 SATELLITE OPTICAL BEACON FOR GEODETIC		DIATONIC GAS OPTICAL MASER WITH EXCITED ATONS PRODUCED THROUGH PHOTOCHEMICAL DECOMPOSITION AROD-3323-3 N63-23167 24-
AFCRL-63-56 N63-15107	11-32	OPTICAL MEASUREMENT
ENGINEERING DESIGN OF ORBITING ASTRONOMICAL OBSERVATORY SATELLITES - OPTICAL SYSTEMS, THE		RADIATION MEDICINE - CHEMOTHERAPY, SKIN CHRONAXY AND VISUAL ANALYZERS, SPLEEN HOMOTRANSPLANTATION BLOOD AND BOME MARROW STUDY
CONTROL, ORIENTATION AND STABILIZATION N63-15172	11-32	JPRS-17402 N63-12391 06-
GEOMETRICAL OPTICS OF MULTIREFLECTOR OPTICAL RESONATORS - CONDITIONS FOR STABLE OPERATION -		EARLY CHANGES IN SKIN CHRONAXY AND VISUAL ANALYZERS - RADIOBIOLOGY N63-12395 06-
OPTICAL MASERS AND LASERS AFCRL-63-115 N63-16686	14-23	SPACECRAFT POSITION IN EARTH-HOON SPACE FROM OPTICAL MEASUREMENTS NASA-TN-D-1604 N63-13099 07-
OPTICAL INSTRUMENT FOR INTERFEROMETRY, DEFLECT MAPPING, SHADOWGRAPHY AND SCHLIEREN PHOTOGRAPH ARL-63-45	HY	COMPARISONS OF ELECTRON MICROSCOPIC METHOD WITH OPTICAL MEASUREMENT & HARDNESS TESTING MACHINES
OPTICAL INSTRUMENT CALIBRATION FOR ELECTROMAG		SEARCH FOR DIAMOND SUBSTITUTES 8M-RI-6181 N63-13459 08-
RADIATION MEASUREMENTS - INFRARED, ULTRAVIOLE AND VISIBLE SPECTRA - DEFENDER PROJECT BAMIRAC-4613-20-R N63-18988	18-15	OPTICAL MEASUREMENT IN AERODYNAMIC RESEARCH - INTERFEROMETRY AND INTERFERENCE PHENDMENDN AGAD-398 N63-18720 17-
TWO-PLATE ELECTRO-OPTIC CRYSTAL LIGHT MODULATE NASA-TT-F-101 N63-20428	OR 20-23	PRESSURE EXERTED BY SHOCK WAVES IN SOLID MEDIA -
OPTICAL INTERFEROMETRY AS APPLIED TO PLASMA DIAGNOSTICS		OPTICAL, ELECTRICAL AND X-RAY TECHNIQUES USED TO MEASURE SHOCK AND FREE SURFACE VELOCITIES POULTER LABS. TR-002-63 N63-19134 18-
LATTER MARKET W. SHOTTWEEL MARKET IN	23-24	OPTICAL METHOD
BEAM DEFLECTION TECHNIQUE OF STUDYING REFRACT! INDEX OF PLASMA - OPTICAL PROBING OF PLASMA PRODUCED IN SHOCK TUBE	IVE	MALL TEMPERATURE MEASUREMENTS BY OPTICAL METHODS THERMOMETRY ONERA-TR-108 N63-11294 03-
	23-24	OPTICAL INTERFEROMETRY FOR PLASMA DIAGNOSTICS
MAGAZINE LOADED OPTICAL FILM VIEWER USING UNIT		SSD-TDR-62-155 N63-11331 03- TWO-DIMENSIONAL FILTERING TECHNIQUE, OPTICS,
SPACE SIMULATION EFFECTS ON THERMAL CONTROL	23-10	INTERFEROMETERS, FILTERS, AND A READOUT SYSTEM N63-11864 04-
The second secon	23-19	PROPAGATION OF ULTRASONIC WAVES IN LIQUIDS BY OPTICAL METHODS
PTICAL MASER CF LASER		AR00-2510-10 N63-13055 07-
INFRARED INTERFEROMETRY AND OPTICAL MASERS - V AFCRL-63-288, VOL. I N63-14359 1		PRODUCTION OF FLUID AMPLIFIERS BY OPTICAL FABRICATION N63-13392 08-
INFRARED INTERFEROMETRY AND OPTICAL MASERS - VOL. 11	OPERIO .	OPTIFORM, OPTICAL MACHINING OF PURE FLUID SYSTEM IN PLASTICS - FLUID AMPLIFIER
0-10 TIPLE-ENG NEATHORN AND AND AND AND AND AND AND AND AND AN	10-25	N63-13393 08-1
DISSOCIATIVE MECHANISM PROPOSED FOR OSCILLATION OBSERVED IN PULSED OPTICAL GASEOUS MASER N63-14422 1		X-RAY OPTICS & X-RAY MICROAMALYSIS - THIRD INTERNATIONAL SYMPOSIUM, 1962 N63-13599 08-
With the season of the season and the season of the season	19	061-17547. S6419

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-23

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OPT

HIGH TEMPERATURE MEASUREMENTS BY OPTICAL ME		EOS-2230-Q-3	N63-11989 05-23
N63-15329 OPTICAL FLOW VISUALIZATION TECHNIQUES FOR HYPERSONIC WIND TUNNEL FOR STUDY OF FLUID	12-24	DEVELOPMENT OF SOUNDING ROC AND OPTICAL TRACKING, MANAGEROCKOON, AND ELECTRONIC EQU	SEMENT, AERODYNAMICS,
HECHANICS SH-41379-9 N63-15610	12-10		H63-13251 07-04
STABILIZATION OF FLAT DIFFUSION FLAMES - OP METHODS FOR ANALYSIS OF STRUCTURE AT VELOCI TO BLOW-OUT N63-18558	TICAL	OPTICAL TRACKING OF SOUNDIN	N63-13259 07-08
OPTICAL-POTENTIAL METHOD AND ITS APPLICATION ELECTRON SCATTERING BY ATOMIC HYDROGEN	17(8.)	OPTICAL SATELLITE TRACKING	N63-16949 14-08
UCRL-10878 N63-20900 OPTICAL METHOD FOR DESERVING BREAKUP AND	21-23	TRACKING, MOONWATCH PROGRAM NASA-CR-50225	
VAPORIZATION OF LIQUID JET - SCHLIEREN & SH PHOTOGRAPHS NASA-CR-52081 N63-23558	24-27	OPTICAL TRACKING USING MEM	BRANE-TYPE OBJECTIVE N63-20349 20-15
TICAL PROPERTY CHEMICAL, OPTICAL, AND MATHEMATICAL INVEST: OF THIN ABSORBING FILMS ON METAL SUBSTRATES AFCRL-62-1045 N63-10120		NAVIGATION OF LUNAR VEHICL LUNAR PHOTOMETRY LYMAN ALP AND TERRESTRIAL OCCULTATIO GCA-TR-62-24-A	NS OF STARS
PROPERTIES OF GLASSES TRANSMITTING IN THE 8 MICRON REGION SCA-34300 N63-11889	TO 14	OPTICAL TRANSITION PROBABILITIES OF OPTICAL TO DIATOMIC MOLECULES - LITER FRL-TN-137	
OPTICAL TRANSITION PROPERTIES - SURVEY	10-23	ISOTOPE SHIFT AND SATURATE	ON BEHAVIOR OF 1.5 MU
PST-501 M63-14638 BIBLIOGRAPHY OF GROUP II TO VI SEMICONDUCTI COMPOUNDS - ELECTRIC CONDUCTIVITY - OPTICAL PROPERTY - DIELECTRICS - DIFFUSION, VOL. 2 AFCRL-62-917/II/ M63-15162	NG	SA CASSEGRAIN OPTICS	N63-15453 12-25
BIBLIOGRAPHY OF GROUP III TO V SEMICONDUCT COMPOUNDS - ELECTRIC CONDUCTIVITY - OPTICAL PROPERTY - DIELECTRICS - DIFFUSION, VOL 3 AFCRL-62-917/III/ N63-15163		SA MAGNETO-OPTIC CF ABERRATION CF FOCUS CF INTERFEROMETRY	100178.000AT 000017.0014
OPTICAL PROPERTIES OF AURORA AND AIRGLON AFCRL-63-609 N63-18830	18-12	PRECISION MEASUREMENT OF F IN PHOTOELASTICITY 01-82-0165	
MATERIALS WITH OPTICAL PROPERTIES FOR FILTS OPTICS IN ULTRAVIOLET REGION OF ELECTROMAGE		INFRARED IMAGE CONVERTER	N63-10129 01-23
SPECTRUH N63-20852	21-19	INFRARED DIFFRACTION PATTE SSD-TOR-62-157	RN SCANNING N63-10313 01-08
SINGLE CRYSTALS WITH OPTICAL PROPERTIES N63-20853	21-19	PROPERTIES OF A DEFOCUSED FTD-TT-62-1139/162	RADAR ANTENNA 01-08
SURFACE REFLECTANCE OF MATERIALS WITH OPTIC PROPERTIES IN VACUUM ULTRAVIOLET - ALUMINUM N63-20854	1469	PATH OF RAYS IN A SPECULAR FTO-TT-62-1218/162	
OPTICAL PROPERTIES OF COLOR - DEVELOPMENT (TRI-STIMULUS COLORINETRY FOR FLUORESCENT CO USING SPECTROPHOTOMETER FOR MEASUREMENT NRI-5933 N63-21375	OLORS	OPTICS DEVELOPMENT FOR 43- PYROMETER DEVELOPMENT FOR MEASUREMENT AFCRL-62-1100	LUNAR TEMPERATURE
RELATION OF SPECTRAL EMITTANCE TO OTHER OPT PROPERTIES N63-23070	TICAL	HEAT-WAVE EFFECTS ON PHOTO	1 42 11000 1 1645-41
LASER DEVICES - MATERIALS, MODE, HIGH PONE RAMAN AND OTHER NONLINEAR OPTICAL EFFECTS N63-23544	24-25	OPTICS OF HILLIMETER WAVES	
FIGAL SATELLITE TRACKING PROGRAM OPTICAL SATELLITE TRACKING PROGRAM N63-10642	02-08	STUDY OF PLANETARY ATMOSPH OCCULTATION RM-3279-JPL	# 17 TO TO 1 20 1 20
TICAL THICKNESS OPTICAL THICKNESS OF PLANETARY NEBULAE AND	a long The avi	APLANATICALLY STABILIZED T	N63-11558 04-05
TEMPERATURE OF CENTRAL STARS N63-16199 ABSORPTION COEFFICIENT AND OPTICAL THICKNES	SE-38	TWO-DIMENSIONAL FILTERING INTERFEROMETERS, FILTERS,	
MEDIUMS FOR ENERGY AND HEAT TRANSFER BY RAC IN NUCLEAR ROCKET ENGINES N63-18927	DIATION	CYBERNETIC AND AUTOMATIC C	
FIGAL TRACKING NOCTURNAL OPTICAL OBSERVATIONS OF SATELLITY FTD-TT-61-351/16264 N63-10339		POLARIZATION - EXPERIMENTA ELECTROMAGNETIC RADIATION AFCRL-62-796	L OPTICS AND THE THEORY
LUNAR TRACKER MATHEMATICAL TECHNIQUES AND ESIMULATION M63-10398		PERFORMANCE OF DIAMOND CRY	STAL RADIATOR AS GAMMA
COHERENT OFFICAL SURVEILLANCE DEVICES		LNF-62-87 A DONTAD ADT 181	HASS N63-12575 06-23

CIRCULAR POLARIZATION OF HIGH EN		AY	TIS-R62-ETC2
LNF-62-84 OPTICS AND STRUCTURE OF CATHODE :	N63-12613	06-25	SPLIT BEAM PHOTO CHANGES IN OPTIC CENTRIFUGE
WITH SPECIAL REFERENCE TO REACTION	ON WITH RESI	DUAL	UCRL-10499
TIL/T-5202 OPTICAL SCANNING USING ELECTRICAL			APERTURE OPTICS ASTIGMATISM LMSC-6-90-63-23
MEMBRANE MIRRORS - APPARATUS AND RESULTS	EXPERIMENTA N63-12808	06-09	LAMINAR FIBER OP SURFACE COATING
COMPUTER PROGRAM FOR OPTICAL SYST LENS DESIGN AND CORRECTION		06-23	MATT-187 USE OF COMPUTERS
OPTICAL AND METEOROLOGICAL DATA (MEL-1150	OF BERING SE N63-13010	A	AND EFFECT OF OP OPTICAL SIGNALS USCEC-97-101
ANALYSIS OF HIGH PURITY VANADIUM EMISSION SPECTROSCOPY 8M-RI-6182	BY OPTICAL N63-13038		CENTER OF PROJEC
REALIZATION OF AN OPTICAL PERIODO APPLICATIONS TO THE STUDY OF THE	FUNCTIONS O	F	AFCRL-63-481 AUTOMATIC OPTICA
TRANSPARENCY METALLURGY - NUCLEAR RADIATION -	N63-13190	07-23 LOYS -	IBM 7090 COMPUTE
CRYSTALS	N63-13191	07-01	SECTION OPTICAL LA-2877
CERAMIC PHOTOIONIZATION CHAMBER F IN VACUUM ULTRAVIOLET WAVELENGTH NASA-TN-D-1715			COMMON PATH INTE OPTICS - BEAM SP NASA-CR-50413
GROUND STATE SPLITTING AND OPTICA MANGANESE ION AND FERRIC ION IN C FIELD WITH SPIN ORBIT COUPLING	UBIC CRYSTA	LLINE	ATMOSPHERIC RADI VISUAL OBSERVATI
AFCRL-63-227 CHANDRASEKHAR X. Y. AND RELATED R FUNCTIONS TABULATED FOR LARGE RAN	IGES OF OPTI	CAL	OPTICAL BIREFRIN OF A PLANE SHEAR AROD-2231-8
DEPTH AND ALBEDO DIFFRACTION BY A REFRACTING WEDGE MRC-297	N63-14469 I N63-14477		INSTRUMENTATION ATMOSPHERIC OPTI POLARIZATION - P
MATHEMATICAL DESCRIPTIONS OF POLA	RIZATION AN	0	AID-P-63-92 FIBER OPTICS TRA
RELATED PHENOMENA - PART II, QUAN DESCRIPTION AFCRL-63-27	N63-14536		R63ELC10
EXCITED STATE-LATTICE INTERACTION OPTICAL EXCITATION STUDY	OF F-CENTE	R -	SPECTROMETRY OF OPTICAL PATTERNS RSIC-42
RR-TR-63-1	N63-14645	10-25	TWO-PLATE ELECTR
INTERACTION OF LASER LIGHT WITH MOPTICS INTERACTION IN METAL VAPOR RM-3560-PR	NETAL - ELEC NETAL - ELEC NETAL - ELEC NETAL - ELEC		NASA-TT-F-101 ELECTRON OPTICAL
EQUATIONS FOR DATA PROCESSING USI METHOD - OPTICAL LENS DESIGN			NBS MONOGRAPH-66 DETERMINATION OF
LA-2837 FIBER OPTICS IN AEROSPACE HAZARD	N63-15212 DETECTION		AFCRL-63-325 MATERIALS WITH O
ASD-TDR-62-731 ABERRATIONS AND ELECTRON OPTICS O	N63-15372	12-19	OPTICS IN ULTRAV
SYSTEM OF REVOLUTION	N63-15450		OPTICAL INFRARED COMPOUNDS BY MAT IITRI-C6013-1
PHOTOCATHODE INTERRACTION WITH ST PLATES - TELEVISION TYPE OPTICAL ASD-TR-61-631			WAVE DIFFRACTION AND KIRCHOFF OPT
NUMERICAL ANALYSIS OF ION SOURCE THRUSTOR NASA-TN-D-1665			HARMONIC GENERAT RC-928
MEASUREMENT OF OPTICAL CONSTANTS			ANNA SATELLITE O
OXIDE AND CALCIUM TUNGSTATE AFCRL-63-454	N63-15826	13-25	INTERRELATIONSHI
DIFFRACTION PATTERN ANALYSIS OF R APERTURE IN PRESENCE OF ABERRATIO DERIVATION OF GENERAL SOLUTION			IN ASTRONOMY FTD-TT-62-1465/1
LMSC-6-90-62-116	N63-15960		DEVICE FOR MEASU
ELECTRON FOCUSING BY NONLINEAR SP IMAGE FORMATION GEOMETRY FOR CATH			FTD-TT-62-1510/1

TIS-R62-ETC2	N63-16107	13-09
SPLIT BEAM PHOTOELECTRIC SCANNEL CHANGES IN OPTICAL DENSITY FOR I CENTRIFUGE		
UCRL-10499	N63-16149	13-15
APERTURE OPTICS - DIFFRACTION -	INTENSITY -	
ASTIGMATISM LMSC-6-90-63-23	N63-16902	14-23
LAMINAR FIBER OPTICS FOR ULTRAV	IOLET SPECTRU	м -
MATT-187	N63-16959	14-24
USE OF COMPUTERS FOR DYNAMIC SY: AND EFFECT OF OPTICAL DEVICES OF OPTICAL SIGNALS	N COHERENCE C	F
USCEC-97-101	N63-17065	15-20
CENTER OF PROJECTION OF CAMERA :		
AFCRL-63-481	N63-17073	15-23
AUTOMATIC OPTICAL RANGE FINDER ARL-63-48	N63-17593	16-08
IBM 7090 COMPUTER PROGRAM FOR DI SECTION OPTICAL LENS AND MIRRORS	S	
LA-2877	N63-17947	16-23
COMMON PATH INTERFEROMETER FOR OPTICS - BEAM SPLITTING BY FRESI NASA-CR-50413		
ATMOSPHERIC RADIATION - ATMOSPHI VISUAL OBSERVATION PROBLEMS	RIC OPTICS A N63-18481	ND 17-15
OPTICAL BIREFRINGENCE ASSOCIATED OF A PLANE SHEAR WAVE IN A VISCO AROD-2231-8		
INSTRUMENTATION USED IN SEARCHLI ATMOSPHERIC OPTICS - LIGHT SCATT POLARIZATION - PHOTOMETERS AID-P-63-92	IGHT TECHNIQU TERING TECHNI N63-19294	JES - QUES 18-15
FIBER OPTICS TRACK/SCAN SYSTEM R63ELC10	N63-19667	19-08
SPECTROMETRY OF ELECTRON INTERFI OPTICAL PATTERNS FOR VELOCITY AN RSIC-42		20-23
TWO-PLATE ELECTRO-OPTIC CRYSTAL NASA-TT-F-101	LIGHT MODULA N63-20428	TOR 20-23
ELECTRON OPTICAL STUDIES OF LOW- NBS MONOGRAPH-66	PRESSURE GAS N63-20745	21-11
DETERMINATION OF OPTICAL ABSORPT AFCRL-63-325	TION COEFFICE N63-20777	ENT 21-23
MATERIALS WITH OPTICAL PROPERTIE OPTICS IN ULTRAVIOLET REGION OF SPECTRUM		
OPTICAL INFRARED SPECTRA OF LOW- COMPOUNDS BY MATRIX ISOLATION AN IITRI-C6013-1		1GHT 21-19
WAVE DIFFRACTIONS FROM TRUNCATED AND KIRCHOFF OPTICAL THEORY		RFACES
NASA-CR-50998	N63-21359	22-11
HARMONIC GENERATION AND MIXING (RC-928	N63-23173	GNALS 24-23
ANNA SATELLITE OPTICAL SYSTEM	N63-23313	24-12
INTERRELATIONSHIP OF OPTICS AND IN ASTRONOMY FTD-TT-62-1465/16264	RADIO ENGINE	
DEVICE FOR MEASURING ABSOLUTE CO		

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CALCULATION OF THE SIMPLEST OPT	COM TWEET		OPTIMIZED ADAPTIVE CONTROL FUNCTIONS - MULTIVARIATE FUNCTION APPROXIMATION AIAA PAPER-63-417 N63-20321 20-29
OF THE SECOND ORDER FTD-TT-62-877/16264	N63-10301	01-09	OPTIMAL CONTROL OF LINEAR SYSTEMS & PERFORMANCE
SUCCESSIVE APPROXIMATIONS TO LY		TONS IN	INDICES FOR OPTIMIZATION OF CONTROL LAW N63-21466 22-06
CONTROL OPTIMIZATION PROBLEMS	N63-10324	01-20	TECHNIQUE FOR OPTIMUM FINAL VALUE CONTROL OF
CONSTRUCTION OF AN AUTOMATIC CO	NTROL SYSTEM	WITH	POWERED FLIGHT TRAJECTORIES NASA-CR-51563 N63-21986 22-22
TRANSIENT CLOSE TO OPTIMAL FTD-TT-62-973/16264	N63-10338	01-09	OPTIMUM NONLINEAR CONTROL OF MULTIVARIABLE SYSTEMS
A PROBABILITY PROBLEM OF OPTIMAL JPRS-16124	L CONTROL N63-10582	02-20	BY MATHEMATICAL ANALYSIS MASA-CR-52226 N63-23815 24-09
DYNAMIC PROGRAMMING TO OPTIMIZE		TROL IN	SA FLIGHT OPTIMIZATION
A 24-HOUR COMMUNICATION SATELLI'	TE N63-11277	03-22	TIME OPTIMAL TURNING MANEUVER OF SUPERSONIC AIRCRAFT
FEEDBACK DESIGN AND OPTIMAL CON-		HOIDIE ,	WGL PAPER-22 N63-10020 01-06
PIBMRI-1095-62	N63-11320	03-09	THE MAXIMUM PRINCIPLE AND THE OPTIMIZATION OF FLIGHT MECHANICS
A PROBLEM IN OPTIMAL NONLINEAR	N63-11352	03-20	WGL PAPER-23 N63-10021 01-02
PRODUCTION OF SHORT-LIVED INTRIG	NSIC RADIOTR	ACERS	STATISTICAL DESIGN - OPTIMIZING BY MINIMIZING A LOSS FUNCTION ARL-62-373, PT. 1 N63-10287 01-20
BMI-1606	N63-11729	04-17	OPTIMIZING ENGINEERING DESIGNS UNDER INEQUALITY
FUEL-OPTIMAL CONTROL OF DOUBLE : WITH RESPONSE TIME CONSTRAINT MS-770	INTEGRAL PLA N63-11851	NT 04-09	CONSTRAINTS AND APPLICATION TO COMPUTER ROUTINES ONR-RM-64 DZ-20
OPTIMUM AUTOMATIC CONTROL	N63-12086	05-09	IMAGE UNSCREENING FOR OPTIMAL VISUAL INFORMATION JPRS-16539 N63-10660 02-21
OPTIMAL CONTROL OF SELF-ADJOINT	SYSTEMS - A		OPTIMAL DESIGN OF EXPERIMENTS - STATISTICS
VELOCITY CONTROL OF TUMBLING SPENS-709		07-09	N63-11162 03-20
ADAPTIVE STATE VECTOR CONTROL - APPROXIMATIONS TO STATE VECTOR			OPTIMUM LOW ACCELERATION TRAJECTORIES FOR INTERPLANETARY TRANSFER ORBITS NASA-TN-D-1456 N63-11613 04-29
MH-MPG-1529-TR-7	N63-14340	10-20	OPTIMUM DESIGN OF SANDWICH PANELS UNDER COMBINED
COMPARISON BETWEEN TRACKING WITH AND SIMPLE INTEGRATOR, HUMAN PER AMRL-TOR-62-150		NAMICS 11-14	LOADS N63-11654 04-34 THEORY OF ANALYTICAL DESIGN OF REGULATORS
CONTROL SYSTEM OPTIMIZATION, API			JPRS-14623 N63-11698 04-20
SYNTHESIS OF OPTIMAL CONTROL ASD-TDR-63-119		12-01	MAPPING OF PHYSICAL CONSTRAINTS FOR SYSTEM OPTIMIZATION R-155 N63-11744 04-09
LIAPUNOV STABILITY AND OPTIMAL (CONTROL N63-17665	16-20	NONLINEAR THEORY AND APPLICATION TO POWER SYSTEMS
NECESSARY CONDITION FOR OPTIMAL NONLINEAR DYNAMICAL SYSTEM	CONTROL OF N63-18149	16-20	N63-12084 05-09 OPTIMIZING PERFORMANCE OF PHOTOCONDUCTORS
CONTROL OPTIMIZATION OF GUIDANCE		D	AFCRL-62-927 N63-12185 05-09
TRAJECTORIES SYNTHESIS OF MINIMUM ENERGY CON'	N63-18693 TROLLER SUBJ	10-00	TRANSVERSAL CONTOUR OPTIMIZATION OF A BODY AT HYPERSONIC SPEEDS USING DIRECT METHODS FLIGHT SCIENCES LAB. TR-64 M63-12369 06-02
POWER CONSTRAINT - FEEDBACK CON- COMPUTATION OF TRANSCENDENTAL E	TROL SYSTEMS		SOLAR CELL ARRAY OPTIMIZATION
and -Monages van ought-wa	N63-18912	18-09	ASD-TR-61-11, VOL. III N63-12708 06-06
OPTIMAL CONTROL OF STOCHASTIC S' RULES, CONTROL SCHEMES, AND FEE			VARIATIONAL CALCULUS FOR OPTIMIZING INTERPLANETARY ROUND-TRIP TRAJECTORIES
ANALYSIS RM-3726-PR	N63-19050	18-09	NASA-TN-D-1660 N63-13793 C9-20
SOLUTIONS TO OPTIMAL PROGRAMMING INEQUALITY CONSTRAINTS ON FUNCT	G PROBLEMS W	ITH ROL OR	STOCHASTIC PROCESS APPLIED TO OPTIMIZING SYSTEM OUTPUT MIT-TR-391 N63-14965 11-20
STATE VARIABLES			CONTROL SYSTEM OPTIMIZATION, APPLICATIONS, AND
EXISTENCE OF ABSOLUTE MINIMUM I	100		SYNTHESIS OF OPTIMAL CONTROL ASD-TDR-63-119 N63-15626 12-01
CONTROL JPRS-20501	N63-19522		PONTRYAGIN PRINCIPLE AND BELLMAN PROGRAMMING -
UNHANNED SPACECRAFT GUIDANCE FRE	OH EARTH BAS	ED	EVALUATION OF FEEDBACK DESIGN AND CONTROL SYSTEMS OPTIMIZATION N63-15627 12-09
STATION - OPTIMAL CONTROL AND OF		ATIONS	FUNCTION SPACE METHODS IN CONTROL SYSTEMS OPTIMIZATION N63-15628 12-09
OPTIMAL LINEAR FEEDBACK GUIDANC	E SCHEME FOR	SPACE	OPTIMAL MODE SWITCHING IN CONTROL SYSTEMS
RH-3604-PR	N63-20177	20-22	N63-15629 12-09

ORB SA SA SA SA SA SA SA SA SA

OPTIMUM THRUST PROGRAMMING FOR MINIMAL FUEL MIDCOURSE GUIDANCE M63-15630 12-29	FROM WAVE WITH POLARIZATION CHARACTERISTICS UNKNOWN OR INCONSTANT RADC-RAL-TM-63-9 N63-18377 17-09
SYNTHESIS OF OPTIMAL CONTROL SYSTEMS N63-15631 12-09	OPTIMIZATION OF PROGRAMMING - COMPUTATIONAL CHAINS AND LOOPS - EQUIVALENCE PROBLEM
THEORY OF OPTIMIZATION FOR CONTROL SYSTEMS OF LAUNCH VEHICLES - NEWTON-RAPHSON OPTIMIZATION METHOD NG3-15632 12-09	AFCRL-63-112 N63-18426 17-20 OPTIMIZATION OF COMPUTER PROGRAMING-COMPUTATIONAL
OPTIMIZATION OF CONTROL SYSTEMS AND EQUIVALENT MINIMIZATION BY NEWTON-RAPHSON METHOD	CHAINS AND LOOPS N63-18427 17-20 COMPUTATIONAL CHAINS AND OPTIMIZATION OF COMPUTER
N63-15633 12-20	PROGRAMS N63-18428 17-20
OPTIMIZATION OF LINEAR CONTROL THEORY FOR APPLICATION TO AEROSPACE VEHICLE CONTROL SYSTEMS N63-15634 12-09	OPTIMIZATION OF SATELLITE DATA ACQUISITION 6 TRANSMISSION TECHNIQUES N63-19902 19-32
OPTIMIZATION OF BOOST AND GLIDE TRAJECTORIES FOR SORTIE REENTRY VEHICLE - COMPUTER CONTROL PROGRAM N63-15635 12-30	DETERMINATION OF OPTIMIZED PROPELLERS FOR GROUND EFFECT MACHINES TRECOM-TR-63-16 N63-20119 20-03
SYNTHESIS AND OPTIMIZATION OF DOLLAC LOGICAL CONTROL SYSTEM N63-15636 12-09	ROCKET OPTIMIZATION PROBLEMS - FLIGHT MECHANICS AND FLIGHT REGULATION N63-20227 20-31
APPROXIMATE REALIZATION OF OPTIMUM CONTROL SYSTEMS	ORBIT-OPTIMIZATION OF SPACE VEHICLES - FLIGHT
USING PONTRYAGIN PRINCIPLE AND BELLMAN THEORY N63-15637 12-09	N63-20229 20-31
APPLICATIONS OF OPTIMUM NONLINEAR CONTROL SYSTEMS N63-15638 12-09	OPTIMIZATION OF SPACE VEHICLE THRUST PROGRAM WITH PRESPECIFIED THRUST DIRECTIONS - FLIGHT MECHANICS AIAA PAPER 63-420 N63-20317 20-29
OPTIMAL PROGRAMMING OF MULTIVARIABLE CONTROL SYSTEMS IN PRESENCE OF NOISE N63-15639 12-20	OPTIMUM WAITING PERIOD FOR AIRCRAFT ENGINE AND ELECTRONIC APPARATUS MAINTENANCE AND REPAIR No.3-20481 20-01
OPTIMAL CONTROL OF LINEAR AND NONLINEAR DYNAMIC SYSTEMS N63-15640 12-20	OPTIMIZATION OF SOLAR CELL POWER SUPPLY FOR INTERPLANETARY SPACECRAFT
CALCULUS OF VARIATIONS IN OPTIMIZATION OF GUIDANCE AND CONTROL SYSTEMS N63-15641 12-20	NASA-TN-D-1846 N63-20602 20-06
SYNTHESIS OF OPTIMAL CONTROL SYSTEMS N63-15642 12-20	OPTIMAL STRATEGIES IN FUNGUS-EATER GAMES - LEARNING, DECISION PROCESS, GAMBLING - HUMAN BEHAVIOR .
OPTIMAL CONTROL FOR SYSTEMS WITH NUMERATOR DYNAMICS N63-15643 12-20	ESD-TDR-63-406 N63-20642 20-14 TRAJECTORY OPTIMIZATION FOR LUNAR AND INTER-
SPACE SCIENCE - STEP ROCKET OPTIMIZATION THEORY N63-15982 13-10	PLANETARY MISSIONS - RANGER PROJECT AIAA PAPER-63-408 N63-20761 21-29
OPTIMIZATION OF LIFTING REENTRY VEHICLES ASD-TOR-62-1102 N63-16117 13-02	TRAJECTORY OPTIMIZATION TECHNIQUE BASED ON THEORY OF SECOND VARIATION AIAA PAPER-63-415 N63-20762 21-29
TELEMETRY CAPACITY OPTIMIZATION - DATA BANDWIDTH	DECISION MAPPING OPTIMUM NETWORKS /DEMON/ - MODEL
REDUCTION AND TRANSMITTER BANDWIDTH UTILIZATION RG-TR-62-3 N63-16843 14-08	FOR NEW PRODUCTS MARKETING ONR-RM-79 N63-20782 21-06
OPTIMIZATION TECHNIQUE FOR PULSE WIDTH MODULATED SYSTEMS	OPTIMIZATION OF MANGANESE CONTENT OF BRAZING ALLOY TO INCREASE LAP SHEAR STRENGTH, CORROSION
R-163 N63-17090 15-20	RESISTANCE, & BRAZEABILITY ERR-FM-178 N63-20957 21-18
OPTIMIZATION OF NONLINEAR, TIME-VARYING DETERMINISTIC SYSTEMS	VARIATIONAL PROBLEMS IN OPTIMIZATION OF CONTROL
R-162 N63-17091 15-20	PROCESSES - SOVIET DATA PROCESSING N63-21086 21-20
OPTIMUM SMOOTHING OF TRAJECTORY DATA WITH REFERENCE TO FPS 16 RADARS	OPTIMIZED ULTRALOW-FREQUENCY SHIELDED-LOOP
SAD-103 N63-17175 15-20	ANTENNA RE-TR-63-7 N63-22604 23-09
MATRIX ANALYSIS OF COMMUNICATION SYSTEMS - OPTIMIZING DEMODULATION BY ANALOG TECHNIQUE VL-2262-13-0 No3-17897 16-08	THEORY OF DYNAMIC SYSTEM STABILITY, OPTIMIZATION, STOCHASTIC VARIATION, CONTROL, & NONLINEAR
OPTIMIZATION OF ANALOG AND DIGITAL DATA	OSCILLATION NASA-CR-52006 N63-22881 23-23
COMMUNICATIONS SYSTEMS RADC-TDR-63-147 N63-17933 16-08	TRAJECTORY OPTIMIZATION USING CALCULUS OF
OPTIMIZATION OF DIGITAL COMMUNICATION SYSTEMS OVER DISPERSIVE CHANNEL IN FREQUENCY DOMAIN N63-17939 16-08	PERTURBATION THEORY RM-3793-PR N63-23149 24-29
	OPTIMUM LAUNCH DATE
OPTIMIZING MULTISTAGE ROCKETS FROM ENERGY CONVERSION EFFICIENCY AFOSR/DRA-62-14 N63-18099 16-31	SPHERE OF INFLUENCE CONCEPT APPLIED TO SPACE FLIGHTS - DISCUSSION OF OPTIMUM LAUNCH DATES AND TIMES, INITIAL VELOCITIES AND FLIGHT CONDITIONS RAE-TRANS-1019 N63-13952 09-29
OPTIMIZATION OF PRODUCTION - MATHEMATICAL ANALYSIS	OPTOMETER
OPTIMIZATION OF ELECTROMAGNETIC ENERGY RECEPTION	CALIBRATION OF THE INFRARED OPTOMETER AMRL-TDR-62-88 N63-10183 01-15

-09 INS

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TH S -29

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D

-15

N63-15460 # 12-20

ORBIT DETERMINATION AS NONLINEAR BOUNDARY VALUE PROBLEM AND QUASILINEARIZATION N63-15460 / 12-

ALIGNMENT OF SUN, EARTH, AND SATELLITE WITH 18H 7090 COMPUTER - ORBIT CALCULATIONS TOR-930/2352/TR-1 N63-15920 13-29

ORBIT SA CIRCULAR ORBIT SA EARTH ORBIT	ALTERNANT MOLECULAR ORBITAL APPROXIMATION - CORRELATION EFFECTS N63-17963 16-23
SA ELECTRON ORBIT SA ELLIPTICAL ORBIT SA HYPERBOLIC ORBIT SA LUMAR ORBIT	HOLECULAR ORBITAL CALCULATIONS AND ELECTRONIC STRUCTURE OF IRON-PORPHYRIN COMPOUNDS ARL-63-130 N63-17965 16-23
SA PARKING ORBIT SA POLAR ORBIT SA SATELLITE ORBIT	LOW THRUST TRANSFER BETWEEN CIRCULAR ORBITS - GUIDANCE SYSTEMS N69-18692 17-29
SA STATIONARY DABIT SA TROJAN ORBIT SA THO-BODY ORBIT NUCLEAR PROPULSION FOR ORBIT-BASED SPACECRAFT	GRBITAL HEAT BALANCE TEST OF H-30A SATELLITE REENTRY VEHICLE 463-18815 18-30
N63-10383 01-27	CRITICAL INCLINATION THEORY OF EARTH SATELLITES - EXTENSION TO CASE OF ASYMMETRICAL POTENTIAL OF
EQUATORIAL ORBITS OF A SATELLITE IN THE GRAVITATIONAL FIELD OF A SPHEROID APGC-TDR-62-65 N63-10403 01-29	MAIN 800Y NASA-TH-X-50238 / 231 / 141 N63-19945 19-29
DEVELOPMENT OF LUNAR AND SOLAR DISTURBING	SPACE DETECTION AND TRACKING SYSTEM /SPADATS/ - MATHEMATICAL MODEL TO DESCRIBE ORBITAL MOTION OF
FUNCTIONS FOR A CLOSE SATELLITE NASA-TN-D-1126 N63-10494 01-27	EARTH SATELLITES N63-20998 21-32
GUIDANCE PERTURBATIONS FOR A LDW-THRUST MARS ORBIT MISSION USING SNAP-8 NASA-TN-D-1433 N63-10734 02-22	ORBITING SATELLITES AND SATELLITES WITH DECAYED ORBITS - NAME, SOURCE, LAUNCH, NODAL PERIOD, INCLINATION, APOGEE, AND PERIGEE
HOLECULAR ORBITALS FOR HYDROGEN BASED ON AVERAGE	NASA-TH-X-50372
HAMILTONIAN AND CORRELATION ENERGY AFCRL-62-1041 N63-10874 02-23	WEST FORD PROJECT FOR BELTS OF COPPER DIPOLES IN SPACE FOR RADIO SIGNAL PROPAGATION JPRS-21142 N63-21384 22-32
PERIODIC ORBITS FOR LUNAR PROBES ARS PAPER-2603-62 N63-11251 03-05	PERTURBATIONS IN THE DRBIT OF THE MOON N63-21616 22-29
OPTIMUM LOW ACCELERATION TRAJECTORIES FOR INTERPLANETARY TRANSFER ORBITS NASA-TH-D-1456 N63-11613 04-29	MOLECULAR ORBIT TRANSITIONS IN BENZENE N63-21758 22-23
Z-FUNCTION SOLUTIONS FOR MOTION AND HEATING DURING ATMOSPHERE ENTRY FROM EQUATORIAL ORBITS OF ROTATING PLANETS NASA-TN-0-1555 N63-12686 06-29	CONSTRUCTION OF SELF-CONSISTENT-FIELD MOLECULAR ORBITAL MAVE FUNCTION AND LCAD-MO POPULATION ANALYSIS N63-21760 22-23
CELESTIAL MECHANICS - PERIODIC ORBITS FOR MOON PROBES	PERTURBATIONS OF EQUATORIAL SATELLITES DUE TO ELLIPTICITY NASA-CR-51555 N63-22030 22-32
NASA-TN-D-1701 N63-12932 07-29 ORBIT CHANGES OF CISLUNAR SATELLITE	BIBLIOGRAPHY - RENDEZVOUS AND ORBITAL DOCKING
ORDIT CHANGES OF CISCORAR SAFELLINE N63-13111 07-29	ORBIT CALCULATION
ALTERNANT MOLECULAR ORBITAL METHOD APPLICABLE TO STATES WITH DIFFERENT MULTIPLICITIES N63-13134 07-23	CALCULATION OF THE ECLIPSE FACTOR FOR ELLIPTICAL SATELLITE ORBITS MASA-TN-0-1347 N63-10496 01-29
SATELLITE OBSERVATIONS OF ECHO-I AND DISTURBANCES IN MOVEMENT N63-13352 08-29	VARIATIONS IN SATELLITE ORBITS - ZONAL HARMONICS SAO SPECIAL REPT101 H63-10510 G1-29
ATTITUDE STABILITY OF GRAVITY-DRIENTED COMPOUND SATELLITE SYSTEMS - PART II, THEORY AND MOTION IN	DIFFERENTIAL CORRECTION FOR VINTI ACCURATE INTERMEDIARY ORBIT
ORBITAL PLANE UTIA-89 N63-14355 10-30	NASA-TN-D-1445 N63-10868 02-29 PERIODIC ORBITS FOR LUNAR PROBES
DESIGN PARAMETERS FOR BALLISTIC INTERPLANETARY TRAJECTORIES - MARS AND VENUS ONE-WAY TRANSFERS JPL-TR-32-77 N63-14717 11-29	ARS PAPER-2603-62 N63-11251 03-05 ERROR STUDY OF ORBITAL PREDICTIONS - ANALYSIS OF
DETERMINATION OF PERIODIC ORBITS IN LUNAR ORBIT PLANE ABOUT TRIANGULAR POINTS IN EARTH-MOON SYSTEM	STATISTICS OF SENSOR DATA ESD-TOR-63-189 MAILED TAGES AND NAS-12453 06-29
N63-15274 12-29 PERTURBATION OF HYPERBOLIC ORBIT BY OBLATE PLANET	ORBIT EQUATIONS BASED ON GENERAL INITIAL CONDITION AND NOT DEPENDENT ON ORBIT ECCENTRICITY NSL-62-13 N63-12633 06-29
AND ESCAPE HYPERBOLA FROM EARTH JPL-TR-32-131 N63-15281 12-29	SATELLITE ORBIT COMPUTATION PROGRAM FOR IZSAK
ORBITAL ERROR ANALYSIS OF SCOUT RESEARCH VEHICLE MASA-TN-D-1639 N63-15779 13-31	SECOND-ORDER SOLUTION OF VINTI DYNAMICAL PROBLEM NASA-TH-D-1539 N63-12926 07-29
PERIODIC TROJAN ORBITS AND THUERING THEORY NASA-TN-D-1416 N63-16985 15-29	CRITICAL INCLINATION PROBLEM IN SATELLITE ORBIT THEORY MASA-TR-R-148 HOTTAGHEMORES N63-13723 08-29

ABORT TECHNIQUES FOR MANNED SPACEFLIGHT AT LAUNCH, SUBORBITAL, ESCAPE AND SUPERORBITAL VELOCITIES - LUMAR LAUNCH & RENDEZVOUS N63-17167 15-32

GUIDANCE SYSTEM ERRORS AND RESULTING ERRORS IN TRAJECTORY AND ORBIT - SOURCE OF GUIDANCE ERRORS N63-17520 16-22

SSS

ORE

Z'S

ORI

COMET INTERCEPT MISSION - ORBIT PROBE DESIGN, BOOSTER REQUIREME			INTERMEDIARY ORBIT NASA-TN-D-1445	N63-10868	02-29
GEODETIC PARAMETERS FOR ORBITAL NASA-TN-D-1847	CALCULATION:		FORMULAS FOR ORBIT DETERMINATI VEHICLES NASA-CR-52270		24-29
DRAG FLUCTUATION AND SATELLITE CIRCULAR ORBIT NASA-CR-50235	15NYMAL AMBIE	ATION - 16-20	ORBITAL ELEMENT SA SATELLITE ORBITAL ELEMENT SATELLITE ORBITAL DATA OF VANO SAO SPECIAL REPT103	GUARD III N63-10508	
PHYSICAL PROPERTIES OF MOON & P ATMOSPHERES, RADIOMETRY, REENTR CALCULATIONS	Y AND ORBIT		VARIATIONS IN SATELLITE ORBITS SAU SPECIAL REPT101		ALM TO ME
NASA-CR-50576	N63-18334	17-29	SATELLITE ORBITAL DATA FOR EX	1	
SATELLITE ORBIT CALCULATIONS - VANGUARD II AND III SATELLITES NASA-CR-50795	POSITIONS OF AND ECHO I RE N63-19094	DCKET 18-08	IX AND VANGUARD II AND III - (SAO SPECIAL REPT113		
THREE-BODY MOON-EARTH SATELLITE TRAJECTORY CALCULATIONS FOR INJ	ORBIT AND		PRELIMINARY ORBITAL ELEMENTS (VISUAL TRACKING RAE-TRANS-1025	MD 2 - 40 - EREWARE	10-08
PERISELENUM NASA-TM-X-50278	N63-19963	19-29	CATALOG OF SATELLITE OBSERVATI SAO SPECIAL REPT116	ONS, NO. C-33 N63-14411	10-32
UNMANNED SPACECRAFT GUIDANCE FR STATION - OPTIMAL CONTROL AND O AIAA 63-399			GEOCENTRIC COORDINATES OF OBSEPHOTOGRAPHIC PLATE AND ORBITAL		FROM 11-12
LAUNCH WINDOWS FOR HIGHLY ECCEN	TRIC SATELLIT	re	ORBITAL ELEMENTS OF SPUTNIK IN		CAFGA
AIAA 63-412	N63-20135	20-29	RAE-TRANS-1029	N63-15554	12-32
RENDEZVOUS COMPATIBLE SPACECRAF FOR 150 TO 850-KM REGION NASA-TM-X-50230	T ORBIT CALCU	20-29	METEOR STATISTICS - ORBITAL EL	NA3-14450	14-05
ORBIT-OPTIMIZATION OF SPACE VEH		3.70%	PHOTOGRAPHS AND ORBITAL ELEMEN	ITS OF METEORS	14-05
MECHANICS AND FLIGHT REGULATION		20-31	CATALOG OF SATELLITE OBSERVATI ELEMENTS OF ECHO I SATELLITE,	ONS - ORBITAL	MPI-Y
SPHEROIDAL METHOD FOR CALCULATI	NG SATELLITE N63-20515	ORBITS 20-29	EXPLORER VIII SATELLITE SAD SPECIAL REPT115	N63-17211	15-32
SEQUENTIAL ESTIMATION OF CORREL VARIABLES AND APPLICATION TO DE DETERMINATIONS			SATELLITE ORBITAL DATA - MEAN ELEMENTS, AND SUN PERIGEE DATA AND EXPLORER SATELLITES		
NASA-CR-50965	N63-21047	21-20	NASA-CR-50800	N63-20258	20-29
ORBITAL SPACE FLIGHT - TRAJECTO ORBITAL MECHANICS, PERTURBATION RENDEZVOUS AND SATELLITE LIFETI	S. MANEUVERIA	iG, E	PERTURBATIONS TO SATELLITE ORE EARTH GRAVITATIONAL FIELD RAE-TN-SPACE-35	N63-20339	DUE TO 20-29
NASA-SP-33, PT. 1 ORBITAL FLIGHT HANDBOOK - CALCU	N63-21101 LATION OF PAS		ORBITAL ELEMENTS DERIVED BY SA PROGRAM USING DIFFERENTIAL ORB		
ORBITS, MISSION AND GUIDANCE & NASA-SP-33, PT. 3	N63-21103		PROGRAM NASA-CR-51562	N63-21987	22-32
BASIC ORBITAL EQUATION FORMULAT DIMENSIONAL TRANSFER PROBLEM IN	TERMS OF	THE PARTY	ORBIT ELEMENTS OF ARIEL I - CO	SHEEKE BILL	
HODOGRAPH PARAMETERS AIAA PAPER 63-411	N63-21996	22-32	RAE-TN-SPACE-39	N63-22206	23-32
RECURRENCE IN DYNAMICAL SYSTEMS CALCULATIONS			SATELLITE SITUATION - SATELLIT DECAYED SATELLITES	N63-23583	24-32
NASA-CR-51997		24-23	ORBITAL LAUNCH PERIGEE PROPULSION FOR ORBITAL	LAUNCH OF NU	CLEAR
CLASSICAL METHODS OF ORBIT DETE NASA-CR-52021	N63-23021	24-05	NASA-TR-R-140	N63-11781	04-27
EXPLORER XII SATELLITE - S-3 EN TEST PROGRAM AND ORBIT NASA-TM-X-50853	ERGETIC PARTI	24-06	AMALYSIS OF FLIGHT MECHANICS F TRAJECTORIES FROM ORBITAL LAUN OF ESCAPE WINDOWS		STUDY
	D TENER WILL.		NSL-62-57	N63-12696	06-29
MEPLERIAN TABLES FOR CONIC, ECC GEODESY RESEARCH - GRAVITY MEAS	N63-23357	24-05	PROPOSED ORBITAL LAUNCH FACELE	N63-12892	07-32
SHAPE DATA FROM SATELLITE ORBIT GEODETIC SATELLITE RECOMMENDATION	CALCULATIONS		FEASIBILITY OF OPTIMIZING NOZZ ORBITAL-LAUNCH NUCLEAR ROCKETS NASA-TN-D-1578		10-02
PLANE CHANGE WINDOWS CONSTRAINE AND AZIMUTH LIMITS FOR SERIES OF INCLINATIONS AND TWO TYPICAL LA	D BY BOTH VEL F TARGET ORBI UNCH SITES	OCITY	AMALYSIS OF WEIGHT PARAMETERS PROPULSION REQUIREMENTS OF ORE NASA-TN-D-1525	INFLUENCE ON	
TDR-269/4130-10/-5	N63-23554		ORBIT-LAUNCH NUCLEAR DESIGN AN EVALUATION PROCEDURE FOR ESCAP	D PERFORMANCE	BUART

MTP-PEVE-F	-62-11 THE GAL FUTAR S	N63-16671	14-30	ORBITAL WORKER CF ASTRONAUT	PARTIES 3NO	
PERFORMANC	CHED NUCLEAR VEHICLE DE EVALUATION PROCEDURE	FOR ESCAPE	AND	CF SPACE MAINTENANCE WEIGHTLESS MAN - SINGLE IMPULSE T	MITERIOLEMATIC	FOR
PLANETARY	MISSION	N63-16986	15-34	ORBITAL WORKERS	N63-10130	ARI
NUCLEAR PR	OPULSION FOR ORBITAL L	AUNCH VEHICL	ES FOR	LONG TETHERLINES FOR ORBITAL DOCK	ING OR RECO	VERY
AIAA PAPER	TARY FLIGHT	N63-17801	16-31	OF ASTRONAUT OPERATING IN SPACE AMRL-TDR-62-123	N63-11788	04-16
	F ORBITAL LAUNCH BY LO	H THRUST	E/9/15	PROPULSION AND CONTROL BELT FOR A MANEUVERING IN ZERO GRAVITY		
DCAS-TDR-6	2-27	N63-18119	16-29	D7123-953002	N63-18246	
PROCESS FO	NICS CHANICS - DIFFERENTIAL R NEARLY CIRCULAR ORBI LIGHT GUIDANCE PROBLEM	CORRECTION TS AND APPLI	10	CONTROLLED ROTATION AND STABILIZA MAN IN MOTION BETWEEN SPACEGRAFTS AMRL-MEMO-P-21		MORKER
	NAME OF STREET		10-29	SENSATIONS AND PERFORMANCE OF ORB	ITAL MORKER	SIN
TRAJECTORI	GUIDANCE - LOW THRUST ES - ORBITAL MECHANICS	STATE OF THE PARTY		AMRL-TDR-62-114	N63-19335	TAS
NIMBUS SAT	ELLITE - SYSTEMS DESIG	DMBF1=DENZYL	ARRES CARRES	EXTRA-VEHICULAR WORKERS	MALIPE SWITE	890
	N - TELEVISION TRANSMI			MANS EXTRAVEHICULAR SPACE MAINTEN	ANCE ROLE	20101
	HT HANDBOOK - ORBITAL	MECHANICS AN	ID .	WATERY SECRETS: - OSSITEMS SEE AN COMMITTEE SERVE AND SECRETS.	FRVARORIES.	SECENT
	PT. 2	N63-21102	21-32	NICKEL-CADMIUM BATTERIES FOR THE		
	CONTROL AND ORBIT HAI	NTENANCE SYS	TEMS	ASTRONOMICAL OBSERVATORY /OAO/ ARS PAPER-2508-62	N63-10257	01-06
FOR ROTATI	NG SPACE STATIONS	N63-22174	23-32	MATHEMATICAL ANALYSIS FOR ORIENTA		NTROL
ORBITAL RENDE	ZVOUS ITAL RENDEZVOUS /EOR/	THE PRINTED		OF ORBITING ASTRONOMICAL OBSERVAT		05-29
S LUNAR ORB	ITAL RENDEZVOUS /LOR/ T ORBITAL RENDEZVOUS	HATEN LESANDS	TIDA	ORBITING SOLAR OBSERVATORY, ORBIT OBSERVATORY, ORBITING GEOPHYSICAL		
COMPUTER S	ATOR IMULATION FOR ORBITAL	SPACE FLIGHT	Total Control	ORBITING OBSERVATORY SATELLITES -	ORBITING S	DLAR
ORBITAL SPACE	E KONGORNO OSPANACHKA	N63-19472	19-01	OBSERVATORIES, ORBITING GEOPHYSIC AND ORBITING ASTRONOMICAL OBSERVA NASA-SP-30	TORIES	
	BITAL SPACE STATION /N			OBJECTIVES OF ORBITING ASTRONOMIC	AR-DBSERVAL	302
ORBITAL TRANS ORBIT TO O CONSUMPTIO	FER RBIT TRANSITION WITH M	200870		MEASUREMENT OF CELESTIAL RADIATIO	ET & INFRAR N, STELLAR N63-15171	MAP
	62-21 _{0, 20} , 21, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23	CHARGE		ENGINEERING DESIGN OF DROITING AS		
TRANSFER	ORMANCE IN SIMULATED S	A Section of the second		OBSERVATORY SATELLITES - OPTICAL CONTROL, ORIENTATION AND STABILIZE	ATION	
	2-138 SURCHARRO DINAS		10-14	COMMITTEE COMMIT	N63-15172	SH 32
TRANSFER	GUIDANCE - OBITAL REN	N63-16807	14-29	VIBRATION DESIGN PROCEDURES AND E TESTING OF ORBITING ASTRONOMICAL		
	ORBITAL TRANSFER USING RHAL PROPULSION SYSTEM		INE -	SOLAR POWER SUPPLY SYSTEM FOR ORR	AND DESCRIPTION	(238
Distriction of the control of the co	ATURATED PLUMMEARAGE	N63-17185	15-27	ASTRONONICAL OBSERVATORY	N63-17805	16-06
ASD-TDR-62	NEUVERS WITH FINITE TH -860	RUST ROCKETS N63-17563	16-20	DYNAMIC TESTING OF ORBITING ASTRO	NONICAL	
	BITAL TRANSFER USING S	OLAR RADIATI	ON	OBSERVATORY ALAA PAPER-63-176	N63-17922	16-30
R63SD30	HRUSTING DEVICE	N63-17766	16-29	GUIDANCE SENSOR FOR HIGH PRECISION NEEDED WHEN EXAMINING RADIATION F		
TRANSFER -	RUST TO WEIGHT RATIO F CIRCULAR TO ELLIPTICA	OR ORBITAL L ORBIT	U.P.S.	STARS STARTMENHOOD HETERMIT HE ZIN	N63-18215	ISMI.
NASA-TH-X-	THE ASSESSMENT FROM AND	N63-19391	18-29	ORBITING ASTRONOMICAL OBSERVATORY		
RENDEZVOUS	O-IMPULSE ORBITAL TRAN BETWEEN INCLINED ELLI -63423	PTICAL ORBIT		SOLAR OBSERVATORY - SATELLITE DES INSTRUMENTATION AND OBSERVATION	N63-19369	18-32
BASIC ORBI	TAL EQUATION FORMULATI	ON FOR THREE		ORBITING GEOPHYSICAL OBSERVATORY /DG	CAREC ROCYO	J.HIV.
HODOGRAPH	L TRANSFER PROBLEM IN	SAME TO SERVE	THE PARTY NAMED IN	SA POLAR ORBITING GEOPHYSICAL OBSERTESTS OF BALL BEARINGS FOR OGO SA	TELLITE -	DIMAGRO
AIAA PAPER	63-411	N63-21996	22-32	PERFORMANCE OF BURNISHED GOLD PLA	-02-2783	HAT21
SIMULATION	OF MAP CORRELATION FO		OR	TR-2311-6026-RU000		06-17
ORBITAL WE	APON TERMINAL CORRECTI	N63-10400	01-20	ORBITING SOLAR OBSERVATORY, ORBIT OBSERVATORY, ORBITING GEOPHYSICAL		

CA

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ORG

N63-20116 20-07

N63-13292 07-32 ORBITING OBSERVATORY SATELLITES - ORBITING SOLAR OBSERVATORIES, ORBITING GEOPHYSICAL OBSERVATORIES, AND ORBITING ASTRONOMICAL OBSERVATORIES NASA-SP-30 N63-13192	HIGH VACUUM APPARATUS AND METHOD RADIATION-CHEMICAL STUDIES OF OR ASD-TDR-62-575 DIRECT FLUORINATION OF DRGANIC C
OBJECTIVES OF ORBITING GEOPHYSICAL OBSERVATORY SATELLITES - ECCENTRIC ORBITING & POLAR ORBITING	ORGANIC POLYMERS AS SEMICONDUCTO
MISSIONS M63-19167 11-32 ENGINEERING DESIGN OF ORBITING GEOPHYSICAL OBSERVATORIES TO MEET EXPERIMENT ORIENTATION REQUIREMENTS N63-15168 11-32	ELECTRICAL AND MAGNETIC PROPERTI SOLIDS - ELECTRON SPIN RESONANCE AFCRL-62-1116
COSMIC RAY DETECTION BY EXPLORER XII SATELLITE - ORBITING GEOPHYSICAL OBSERVATORY N63-17115 15-28	USE OF TRITIUM FOR DETERMINING R OF ABSTRACTION RATES OF HYDROGEN COMPOUNDS - HYDROCARBONS IN RADI TIL/T-5370
ORBITING SOLAR OBSERVATORY /OSO/ SA ADVANCED ORBITING SOLAR OBSERVATORY /AOSO/ SOLAR RADIATION MONITORING	GANNA RAY PHOTOCONDUCTIVITY IN O MATERIALS AND COMPOUNDS SCDC-2580
IAS PAPER-63-2 N63-12880 07-28 ORBITING SOLAR OBSERVATORY, ORBITING ASTRONOMICAL OBSERVATORY, ORBITING GEOPHYSICAL OBSERVATORY N63-13292 07-32	NUCLEAR SUBMARINE ATMOSPHERE — O ANALYSIS — REMOVAL BY CATALYTIC CARBON ADSORPTION — CLOSED ECOLO NRL—5800
ORBITING OBSERVATORY SATELLITES - ORBITING SOLAR OBSERVATORIES, ORBITING GEOPHYSICAL OBSERVATORIES, AND ORBITING ASTRONOMICAL OBSERVATORIES NASA-SP-30 15166 11-32	CHEMISTRY OF ORGANIC COMPOUND-FL SYNTHESIS OF HIGHLY FLUORINATED AROD-2289-4
OBJECTIVES OF ORBITING SOLAR OBSERVATORIES - OSO I RESULTS, ADVANCED OSD I /HELIOS/ SOLAR FLARE MISSION N63-15169 11-32	ELECTRIC CONDUCTION PROPERTIES O COMPOUNDS FOR SOLID STATE AND EN DEVICES DCAS-TDR-62-19
PRELIMINARY SOLAR FLARE OBSERVATIONS WITH SOFT X-RAY SPECTROMETER ON ORBITING SOLAR OBSERVATORY SATELLITE	DIELECTRIC, SPECTROSCOPIC, AND P PROPERTIES OF ORGANIC COMPOUNDS ARF-3142-12
NASA-TH-X-50023 N63-16708 14-28 SCANNING SPECTROMETER WITH RANGE FROM 500 TO 1500	TITANIUM ORGANIC COMPOUNDS FOR H
ANGSTROMS FOR ORBITING SOLAR OBSERVATORY N63-18354 17-15	IMPROVED TITANIUM-ORGANIC COMPOU HYDRAULIC FLUIDS
ORBITING ASTRONOMICAL OBSERVATORY AND ORBITING SOLAR OBSERVATORY - SATELLITE DESIGN, LAUNCHING, INSTRUMENTATION AND OBSERVATION N63-19369 18-32	FORMATION OF ENERGETIC FRAGMENT BOHBARDMENT OF ORGANIC MOLECULES
ORBITING SOLAR OBSERVATORY I ORBITING SOLAR OBSERVATORY, FIRST OF STREETCAR SATELLITES - INSTRUMENTATION	UCRL-10687 SYNTHESIS OF ORGANIC COMPOUNDS B DISCHARGE
NASA FACTS-B-62 N63-16700 14-29	NASA-CR-50300
DRDMANCE CF MEAPON TEMPERATURE STABILIZED ORDMANCE BINARY TIMER PA-TM-1017 N63-11610 04-15	EMISSION FROM ORGANIC COMPOUNDS APPLICATION AID-P-63-85
REINFORCED PLASTICS FOR UNDERWATER DROMANCE AND DEEP SUBMERGENCE CONSTRUCTIONS	ADSORPTION OF POLAR ORGANIC COMP SURFACES AROD-2281-4
RADIANT HEATING TECHNIQUE TO STUDY VULNERABILITY	SYNTHESIS OF UNSATURATED FLUOROC.
OF DROMANCE ITEMS TO FIRE NOTRE-03-174 N63-22240 23-13	ATOMIC AND MOLECULAR LINE SPECTRI HALIDE COMPOUNDS AND HALIDES BURN METAL VAPOR
CF HINERAL HETHODS FOR ANALYZING TUNGSTEN ORES INCLUDING IMPURITY ELEMENTS IN TUNGSTEN CONCENTRATES BM-RI-6148 04-07	CHROMATOGRAPHIC AND SPECTROGRAPH BENZENE EXTRACTS OF HYDROCARBONS HYDROCARBON COMPOUNDS FROM ORGUE
DETERMINATION OF TRACE ELEMENTS IN MINERALS AND ORES BY FLUORESCENT X-RAY SPECTROGRAPHY BM-RI-5966 N63-17888 16-18	GAMMA RAY PHOTOCONDUCTIVITY MEASI ORGANIC DIELECTRICS - POLYSTYREM
CORRELATION AND CHRONOLOGY OF ORE DEPOSITS AND VOLCANIC ROCKS N63-19801 19-12	POLYETHYLENE, POLYPROPYLENE, AND SCR-526
ORGANIC COMPOUND ORGANIC COATING BY THE FLUIDIZED BED TECHNIQUE RIA-62-3183 N63-10162 01-17	TITANIUM ORGANIC COMPOUNDS FOR HE MITH HIGH TEMPERATURE LUBRICANT
YIELD OF RADIOLUMINESCENCE OF ORGANIC COMPOUNDS, SCINTILLATORS, GAMMA RAYS AEC-TR-5377 N63-10679 02-28	ELECTRON SPIN RESONANCE MEASUREM PYROLYSIS - CARBONIZATION OF ORG GRAPHITE WADD-TR-61-72, VOL. 16
	GRAPHITE

DES USED IN DRGANIC COMPOUNDS N63-10741 02-02-07 COMPOUNDS N63-11736 04-07 TORS N63-12181 05-25 TIES OF ORGANIC E SPECTROSCOPY N63-12731 06-07 RELATIVE CONSTANTS EN ATOMS IN ORGANIC DICAL REACTIONS N63-12955 07-07 ORGANIC DIELECTRIC N63-14521 10-23 ORGANIC CONTAMINANT COMBUSTION AND OGICAL SYSTEM N63-14733 11-16 LUDRINE REACTIONS -COMPOUNDS N63-15482 12-07 OF ORGANIC NERGY CONVERSION N63-15705 12-07 PHOTOCONDUCTIVE FOR SEMICONDUCTORS N63-16112 13-25 HYDRAULIC FLUIDS N63-16431 14-07 UNDS FOR USE AS N63-16432 IONS BY S WITH SLOW N63-16503 14-24 BY ELECTRIC N63-17123 15-07 - LASER N63-17397 15-23 POUNDS ON METAL N63-18140 16-07 CARBON ORGANIC N63-18143 16-07 RUM OF ORGANIC-RNING IN ALKALI N63-18509 17-07 HIC ANALYSES OF S AND ORGANIC NON-EIL METEORITE N63-18892 18-07 SUREMENTS FOR NE, NYLON, D TEFLON N63-18974 18-25 HYDRAULIC FLUIDS PROPERTIES N63-19889 MENTS DURING GANIC COMPOUNDS TO

ORGANIC COOLING RADIATION STABILITY OF ORGANIC REACTOR COOLANTS

17 17 5

7

7

3

SELF-DECOMPOSITION OF CARBON-14 LABELLED ORGANIC COMPOUNDS - REVIEW OF LITERATURE PA-TR-3078 N63-20394 20-07	RADIOLYSIS YIELD OF POLYPHENYLS IRRADIATED IN NEUTRON-RICH SPECTRUM OF THE SUSIE REACTOR TID-16999 N63-11828 04-23
CERTAIN BIOLOGICALLY IMPORTANT POLYANION-ORGANIC CATION COMPLEXES AS ENERGY TRANSFER SYSTEMS AFCRL-63-839 N63-21322 21-16	IRRADIATION OF SANTOWAX OMP IN IN-PILE LOOP - PART 1, SUMMARY MITHE-21 N63-12108 05-13
QUANTITATIVE ANALYSIS OF HYDROGEN AND CARBON IN ORGANIC COMPOUNDS TILTX-5378 N63-21674 22-16	IRRADIATION OF SANTONAX OMP IN IN-PILE LOOP - PART 2, TESTS OF ORGANIC MATERIALS FOR USE AS COOLANTS IN NUCLEAR REACTORS
ORGANIC SEALANTS FOR CRYOGENIC TEMPERATURES	MITNE-22, BK.I N63-12130 05-13 LONG-YERM IRRADIATION OF SINTERED ALUMINUM PRODUCT
EFFECTS OF SUNLIGHT ON ORGANIC COMPONENTS OF	CLAD, URANIUM OXIDE FUELED, TREFOIL BUNDLES IN X-7 ORGANIC COOLED LOOP
CLOSED ECOLOGICAL SYSTEMS - PRODUCTION OF TOXIC END PRODUCTS SAM-TOR-63-65 N63-23514 24-16	ORGANIC FLUORINE COMPOUND
ORGANIC COOLANT RADIATION STABILITY OF ORGANIC REACTOR COOLANTS	COMPATIBILITY OF LUBRICANTS WITH MISSILE FUELS AND OXIDIZERS - ORGANIC FLUORINE COMPOUNDS A62-13 N63-13326 08-07
RADIOLYSIS YIELD OF POLYPHENYLS IRRADIATED IN NEUTRON-RICH SPECTRUM OF THE SUSIE REACTOR T10-16999 N63-11828 04-23	PARTIALLY FLUORINATED ALIPHATIC COMPOUNDS BY REDUCTIVE DESULFURIZATION OF SUBSTITUTED
IRRADIATION OF SANTOWAX OMP IN IN-PILE LOOP -	THIOPHENE - ALCOHOL, KETONE A62-16 N63-13328 08-07
MITNE-21 N63-12108 05-13 IRRADIATION OF SANTOWAX OMP IN IN-PILE LOOP -	FLUOROCARBON NITROGEN-FLUORINE COMPOUNDS AROD-007-15 N63-15817 13-07
PART 2, TESTS OF ORGANIC MATERIALS FOR USE AS COOLANTS IN NUCLEAR REACTORS MITNE-22, BK-I N63-12130 05-13	GRANIC NATERIAL GAMMA RAY PHOTOCONDUCTIVITY IN ORGANIC DIELECTRIC MATERIALS AND COMPOUNDS SCDC-2580 N63-14521 10-23
SPECTROGRAPHIC ANALYSIS OF METALLIC IMPURITIES IN SANTOWAX	ARMY INSTRUMENTATION PROGRAM - ORGANIC FILM TUNNEL
RT/CHI/62/13 N63-12447 06-07	EMISSION - SOLID STATE TRIODE SMIR-63-1 N63-1578B 13-09
ORGANIC REACTOR TECHNOLOGY - COOLANTS, LOOPS, RADIOLYSIS RECLAMATION, COOLING SYSTEM IDO-16830 N63-13282 07-23	VISCOELASTICITY OF GALEX ORGANIC GLASS - SHEAR COMPLIANCE TEST RESULTS - TRANSITION TEMPERATURE ONR-TR-RLT-59 N63-16553 14-19
HIGH TEMPERATURE ELECTRON IRRADIATION TESTING OF ADDITIVE FOR REDUCTION OF RADIATION DAMAGE TO TERPHENYL USED AS ORGANIC COOLANTS - SANTOMAX OMP IDD-16839 08-07	METAL PURIFICATION AND DRGANIC SEMICONDUCTORS AFCRL-63-97 M63-16739 14-07
THERMAL DECOMPOSITION OF ORGANIC COOLANTS - POLYPHENYLS	REMOVAL OF ORGANIC MATERIAL CONTAMINANTS FROM TRIBUTYL PHOSPHATE KEROSENE SOLVENT NLCO-882 N63-17916 16-07
100-16851 N63-15542 12-07 DESIGN CRITERIA FOR UTILIZING GAMMA HEAT TO BRING	COLORIMETRIC DETERMINATION OF ORGANIC CONTENT OF SOILS FOR DETECTION OF EXTRATERRESTRIAL LIFE
LOW TEMPERATURE ORGANIC COOLANT CAPSULES TO DESIRED TEMPERATURE IDO-16850 N63-15887 13-10	NASA-CR-50778 N63-19786 19-16 ORGANIC MATERIAL PRESENT IN CARBONACEOUS
FILM FORMATION AND DECONTAMINATION - ORGANIC	CHONDRITES JPL-TR-32-436
CODIANTS N63-16363 14-07 EQUIPMENT FOR CONTINUOUS MEASUREMENT OF VOID FRACTION IN BOILING ORGANIC COOLANT - NUCLEAR	TRITIUM LABELING OF ORGANIC MAYERIALS - NUCLEAR MAGNETIC RESONANCE AND EXCHANGE REACTIONS NG3-22707 23-23
REACTOR COOLANTS NAA-SR-7875 N63-17250 15-13	ORGANIC MODERAYED REACTOR REACTOR TECHNOLOGY & SAFETY - LIQUID METAL COOLED.
ORGANIC COOLANTS FOR NUCLEAR REACTORS - SANTOWAX AND POLYPHENYL COOLANTS, RADIOLYTIC AND PYROLYTIC EXPERIMENTS	HALLAM POWER, ORGANIC MODERATED AND POWER REACTORS NAA-SR-7400 16-23
100-16869 N63-18810 18-23	ORGANIC PHOSPHORUS COMPOUND FRIEDEL-CRAFTS REACTION OF FERROCENE WITH
EVALUATION OF SODIUM-POTASSIUM AND ORGANICS AS FLUIDS IN HEAT REJECTION LOOP OF SNAP-8 SYSTEM N63-23629 24-19	PHOSPHORUS TRICHLORIDE TO FORM TRIFERROCENYL- PHOSPHINE A62-15 M63-13327 08-07
ORGANIC COOLED REACTOR HYDRAULIC TESTS OF CONTROL ROD AND DRIVER FUEL FOR EXPERIMENTAL ORGANIC COOLED REACTOR IDO-16811 N63-11847 04-17	ORGAMISM SA MICROORGANISM CF ANIMAL STUDY EXTRATERESTRIAL LIFE - POSSIBLE ORGANISMS ON MARS JPRS-21026 N63-21489 22-16
CHEMPUMP FOR HIGH TEMPERATURE USE IN EXPERIMENTAL ORGANIC COOLED REACTOR - HEAT EXCHANGER DESIGN 100-16844 N63-15197 11-17	MARS AND ORGANIC LIFE N63-21491 22-16
EXPERIMENTAL ORGANIC COOLED REACTOR PROGRAM - FILM	RECEPTION OF IONIZING RADIATION BY ORGANISMS N63-23300 24-16
FORMATION ON REACTOR FUEL ELEMENTS 100-16845 N63-15541 12-10 ORGANIC COOLING	ORGANGMETALLIC COMPOUND CF CHELATE COMPOUND REACTIONS OF ORGANOMETALLIC COMPOUNDS AND
UNGANIC COOLING	REALTIONS OF URGANUMETALLIC COMPOUNDS AND

ORGANOMETALLIC COMPOUND
CF CHELATE COMPOUND
REACTIONS OF ORGANOMETALLIC COMPOUNDS AND
CYCLIZATIONS

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OFATF

AROD-1443-55 N63-12217 05-07	ORLICZ SPACE CONJUGATE FUNCTIONS IN ORLICZ SPACES
DERIVATIVES OF FERROCENE - PART 1, METALLATION N63-13241 07-07	MRC-367 N63-12389 06-20
DERIVATIVES OF FERROCENE - PART 2, REDUCTION PRODUCTS OF BENZOYLFERROCENE AND 1,1-DIBENZOYLFERROCENE N63-13242 07-07	ORTHICON MATERIAL INTERACTION AND HIGRATION IN CAMERA TUBES - ORTHICON ASD-TDR-62-78 N63-15508 12-17
DERIVATIVES OF FERROCENE - PART 3, ACYLFERROCENES AND ALKYLFERROCENES N63-13243 07-07	IMAGE ORTHICON PHOTOGRAPHS OF METEORS N63-16654 14-05
REACTION OF TRIPHENYLPHOSPHINIMINES WITH BORON	ORTHOGONAL FUNCTION
FLUORIDE, ORGANOMETALLIC COMPOUNDS AND LEWIS ACIDS AROD-2276-4 08-07	SIGNAL ANALYSIS USING ORTHOGONAL FUNCTIONS RADC-TDR-63-142 N63-16789 14-08
TITANIUM ORGANIC COMPOUNDS FOR HYDRAULIC FLUIDS N63-16431 14-07	SPACECRAFT GUIDANCE - ORTHOGONAL FUNCTIONS N63-16809 14-20
IMPROVED TITANIUM-ORGANIC COMPOUNDS FOR USE AS MYDRAULIC FLUIDS N63-16433 14-07	INPUT WAVEFORMS TO YIELD TIME-LIMITED ORTHOGONAL OUTPUTS AFCRL-62-907 N63-19808 19-09
PREPARATION OF METALS FROM ORGANOMETALLIC COMPOUNDS - THERMAL DECOMPOSITION - LITERATURE SURVEY	THEORY OF ORTHOGONAL FUNCTIONS WITH APPLICATIONS TO LINEAR EQUATIONS AND LINEAR PROGRAMMING BY
SURVEY AFCRL-63-22/X N63-16976 14-07	USING FRECHOLM INTEGRAL EQUATION ONR-RM-78 N63-20923 21-20
GROWTH TO DETONATION OF LOW DENSITY EXPLOSIVE MIXTURES - ORGANIC LEAD COMPOUNDS	ORTHOTROPISM
NOLTR-62-89 N63-19328 18-07	ELASTIC AND PLASTIC BUCKLING OF ORTHOTROPIC CYLINDERS N63-10829 02-33
HIGH TEMPERATURES OBTAINED BY COMBUSTION OF METALS AND ORGANOMETALLIC COMPOUNDS N63-20198 20-26	BUCKLING OF REINFORCED ORTHOTROPIC CYLINDERS N63-10830 02-33
SCOPE & MECHANISM OF REARRANGEMENT OF BENZYL ALKYL ETHERS INDUCED BY ORGANOMETALLIC BASES AROD-2650-4 N63-22396 23-07	EQUATIONS GOVERNING FREE VIBRATIONS OF THICK, COMPOSITE, ORTHOTROPIC, CIRCULAR, CYLINDRICAL
ORGEL REACTOR PROJECT EURATOM RESEARCH ACTIVITIES - ORGEL REACTOR	SANDWICH SHELLS N63-20615 20-33
EUR-110-E N63-13266 07-01 NUCLEAR REACTOR RADIATION SHIELDING OF THE ORGEL	OSCILLATION SA FREE OSCILLATION SA HARMONIC OSCILLATION
CRITICAL EXPERIMENT EUR-149.F N63-13764 08-23	SA PLASMA OSCILLATION CF RESONANCE, RESONANT FREQUENCY CF VIBRATION
ORGUEIL METEORITE ELECTRON PROBE MICROANALYSIS OF ORGUEIL METEORITE FOR EXTRATERRESTRIAL LIFE N63-13089 07-07	THE DYNAMIC STABILITY OF PARACHUTES WGL PAPER-25 N63-10023 01-02
ANALYSIS OF ORGUEIL METEORITE	STUDY OF FLUTTER IN AIRCRAFT WGL PAPER-35 N63-10031 01-33
N63-17652 16-07 CHROMATOGRAPHIC AND SPECTROGRAPHIC ANALYSES OF BENZENE EXTRACTS OF HYDROCARBONS AND ORGANIC NON-	VISCOSITY OF GASES BY OSCILLATING DISK METHOD BRN-2-P N63-10093 01-23
HYDROCARBON COMPOUNDS FROM ORGUEIL METEORITE N63-18892 18-07	RESEARCH ON HIGH-TEMPERATURE BEARINGS ASD-TR-61-705 N63-10194 01-17
ELECTRON PROBE X-RAY MICROANALYSIS OF ORGANIZED ELEMENTS IN THE ORGUEIL CARBONACEOUS METEORITE N63-20933 21-05	SELF-OSCILLATIONS OF A NEUTRAL AIRCRAFT WITH AN AUTOPILOT HAVING A PULSE-ACTION SERVOMECHANISM N63-10299 01-22
ORIENTATION S SATELLITE ORIENTATION	ENERGY OF SELF-OSCILLATION USED TO DETERMINE THE STABILITY AND CONTROL SYSTEM FTD-TT-61-465/16264 N63-10305 01-09
S SPATIAL ORIENTATION	SUPPRESSION OF SELF-OSCILLATIONS IN SERVOPILOT
ORIFICE CF OUCT	SYSTEM FTD-TT-62-876/16284 N63-10446 01-22
HIGH SPEED FLOW OF FLUIDS THROUGH POROUS MEDIA - CAPILLARY ORIFICE FLOW MODEL, PLANAR PRESSURE WAVE INTERACTIONS, COMPUTER PROGRAM AROD-3005-4 N63-13438 08-11	INTERNAL BODY MOVEMENTS RESULTING FROM EXTERNALLY APPLIED SINUSOIDAL FORCES OBSERVED BY X-RAY DEVICE AMRL-TDR-62-81 N63-10472 01-16
NOZZLE ORIFICE FLOW AT LOW REYNOLDS NUMBERS	GROUND WIND AND WIND-INDUCED OSCILLATION TESTS ON
N63-14383 10-02	THE 624A BOOSTER ER-12737 N63-11126 03-30
MASS FLOW MEASUREMENT USING DRIFICES IN IMPULSE BASE FLOW FACILITY NASA-TM-X-50998 N63-23819 24-26	EFFECT OF TENSILE CREEP AND LOW AMPLITUDE LATERAL OSCILLATIONS ON DYNAMIC MODULUS OF ALUMINUM
ORIGIN CHEMICAL COMPOSITION AND STRUCTURE OF JUPITER AS TEST CASE OF ORIGIN OF GIANT PLANETS N63-12151 05-05	N63-11574 04-33 AERODYNAMIC FORCES ON OSCILLATING TWO-DIMENSIONAL MING IN ACCELERATED SUPERSONIC FLIGHT ARC-REM-329 N63-11903 04-03
PROPOSED EXPERIMENTS FOR GRAVITATIONAL INTERACTION DECAY - IMPLICATIONS FOR PLANETARY & STELLAR AGES N63-23446 24-29	REACTOR TECHNOLOGY - RADIOGRAPHING WELDS - STEAM GENERATOR STABILITY - IRRADIATION OF FUELS MAPD-BT-27 N63-11937 04-23

-20

-17

-05

-08

-20

-09

-20

-33

-33

-33

02

33

21

17

22

09

22

16

10

13

13

3

EQUATIONS

CALCULATION OF COMPLEX NATURAL MODES FOR SPATIAL N63-15035 11-26 XENON OSCILLATIONS AND COMPARISON WITH SIMPLE POSITIONING OF FERRIMAGNETS IN RESONANT CAVITY TO PRODUCE MAGNETOSTATIC OSCILLATION MODES AFCRL-63-16 M63-15045 11-2 DISTRIBUTIONS OF OSCILLATORY LIFT AND HOMENT ON SUBMERGED HYDROFOILS N63-11966 OSCILLATING CYLINDER VISCONETER TO MEASURE VISCOSITY OF LIQUID POTASSIUM FROM 70 TO APPROXIMATE SOLUTION TO NONLINEAR DIFFERENTIAL EQUATION OF THIRD ORDER WITH BOGOLYUBOV ASYMPTOTIC 1150-DEG C BATT-4673-METHOD NASA-TT-F-133 N63-12061 05-20 INSTABILITY OF PROPELLANT COMBUSTION - FLAME ZONE-OSCILLATING PRESSURE FIELD INTERACTION PRODUCING ENTROPY WAVES N63-15407 12-26 LIBRATION ORBITS OF A PARTICLE NEAR TRIANGULAR POINT IN SEMIRESTRICTED THREE-BODY PROBLEM SAO SPECIAL REPT.-108 INVESTIGATION OF RESONANT, NONLINEAR, NONPLANAR FREE SURFACE OSCILLATIONS OF FLUID MEASUREMENT OF PITCHING-HOMENT DERIVATIVES FOR RIGID TAPERED WINGS OF HEXAGONAL PLANFORM OSCILLATING IN SUPERSONIC FLOW NASA-TH-D-1870 N63-15509 12-11 MEASUREMENT OF OSCILLATORY BURNING IN SOLID PROPELLANT COMBUSTION ZONE - COMBUSTION N63-12128 05-03 ARC-REM-3294 N63-15578 12-26 HEAT TRANSFER FROM FLAT PLATE TO AIRSTREAM HAVING LARGE AMPLITUDE OSCILLATIONS COMBUSTION STABILITY TESTS OF SOLID PROPELLANTS BY NASA-TR-R-142 N63-12597 OSCILLATORY STRAND BURNEK N63-15586 12-26 SMALL PERTURBATION MATRIX APPROACH TO STUDY OF PARALLEL CHANNEL BOILING FLOW OSCILLATIONS OSCILLATORY BURNING IN SIDE-RENTED CYLINDRICAL CHAMBER FOR STUDYING BURNING OF END-BURNING PROPELLANT GRAINS - COMBUSTION INSTABILITY PITCH DAMPING AT LARGE ANGLES OF OSCILLATION FOR PROPOSED MARS ATMOSPHERE-ENTRY VEHICLES - WIND MECHANICAL BEHAVIOR OF SOLID PROPELLANTS SUBJECTED TO SMALL OSCILLATING DEFORMATIONS - COMBUSTION N63-15594 12-26 TUNNEL TEST METHODS IAS-PAPER-63-79 N63-12899 DAMPING OF QUANTIZED LONGITUDINAL ELECTRON OSCILLATORY AERODYNAMIC DERIVATIVES FOR WING WITH CONTROL SURFACE - PITCH TRANSLATION AND ROTATION ARC-REM-3307 N63-15744 12-02 OSCILLATIONS IN NONDEGENERATE PLASMA N63-15744 12-03 CALCULATIONS OF LIFT, MOMENT, AND CAVITY LENGTH FOR OSCILLATING PARTIALLY CAVITATED HYDROFOIL AERODYNAMIC FORCES AND HOMENTS OF OSCILLATING CONTROL SURFACES AT TRANSONIC SPEEDS NACA-RM-L57022B N63-16237 N63-13137 07-11 N63-16237 13-03 OSCILLATING WEDGE SHAPED AIRFOILS IN HYPERSONIC DISPERSION AND DAMPING OF LONGITUDINAL ELECTRON OSCILLATIONS IN THERMAL PLASMA FLOW AASU-228 N63-13494 08-03 TESTS ON AGARD MODEL D - DAMPING, UNSWEPT WING, FORCED OSCILLATION, SCATTERING, WIND TUNNEL
N63-13513 HIGH SPEED WIND TUNNEL TEST OF TARTAR/TERRIER MISSILE - TAIL FIN OSCILLATION IN TRANSONIC FLOW FLUTTER OF OSCILLATING WINGS IN SUBSONIC FLOW MOMENTS OF INERTIA FOR AVRO 7078 AIRCRAFT - MEASUREMENT BY SPRING-CONSTRAINED OSCILLATION SUSTAINED OSCILLATION OF SYSTEMS WITH DRY FRICTION SYNCHRONIZATION OF SELF-OSCILLATIONS IN OSCILLATORS - ANNOTATED BIBLIOGRAPH RESEARCH IN THEORY OF MOVEMENT OF PARTICLES IN HODERN CYCLIC ACCELERATORS - BETATRON AND SYNCHROPHASOTRON N63-13994 N63-17396 15-23 SPHEROIDAL VIBRATIONS OF EARTH AT LONG PERIODS RIGIDITY OF EARTH CORE N63-17710 16 16-12 HYDRODYNAMIC STABILITY AND CAVITY OSCILLATIONS -DISCONTINUOUS VELOCITY PROFILE AT THE UNDBSTRUCTED AEROELASTICITY - WIND TUNNEL TEST METHODS FOR MEASURING OSCILLATORY DERIVATIVES OF AIRCRAFT CAVITY OPENING MIT-DSR-8951 N63-14041 09-11 ODELS - STABILITY AND FLUTTER INTRODUCTORY SURVEY OF AEROELASTICITY - MOTION EQUATIONS, AERODYNAMIC FORCES, OSCILLATIONS, FLUTTER, AERODYNAMIC HEATING N63-14114 09 N63-17820 16-33 ROLLING CONTACT BEARING FATIGUE UNDER OSCILLATORY A DAD TESTING N63-17873 16-17 ELECTROMAGNETIC WAVE INTERACTION AND REFLECTION FROM PLANE IONIZED MEDIUM - ELECTRON DENSITY ANGLE OF ATTACK AND BANK-ANGLE PROGRAMS FOR OSCILLATION REENTRY GLIDER - LATERAL OSCILLATION AFCRL-63-291 N63-14300 10-08

NACA-RM-E56C09 N63-14761 11-2
HYDRODYNAMIC FORCES INFLUENCING HYDROFOIL
OSCILLATION N63-15033 11-1

SUBHARMONIC SOLUTIONS OF NONLINEAR OSCILLATION

ATTENUATION OF TANGENT-PRESSURE OSCILLATION IN

LIQUID-OXYGEN-HEPTANE ROCKET ENGINE COMBUSTION CHAMBER USING LONGITUDINAL FIN

INTERACTION OF ACOUSTIC OSCILLATORY PRESSURE FLUCTUATION WITH BURNING OF SOLID COMPOSITE PROPELLANTS - ANALYSIS OF COMBUSTION INSTABILITY

N63-14642 10-20

ELECTRON TRANSIT TIME IN LANGMUIR PROBE FOR SUPERIMPOSED OSCILLATING FREQUENCY POTENTIAL ABOVE

NEW ANALOGIES BETWEEN SOUND WAVE & ELECTROMAGNETIC WAVE - OSCILLATION - ACOUSTICS

COUPLED DYNAMIC RESPONSE OF PARTIALLY-FILLED TANK UNDER FREE AND FORCED PLANAR OSCILLATIONS .

FLAPPED HYDROFOIL OSCILLATION IN WAVES - SUBCAVITATION FLOW

N63-18025

N63-18110

N63-18241 17-23

16-11

ELECTRON PLASMA FREQUENCY

NUP-63-9

GD/C-63-032

os s OT

OT

OT

0000

01

0

			SUBJECT INDEX
NASA-TN-D-1945	N63-19279		ELECTRON IMPACT STUDIES OF CARBON DIOXIDE WITH OSCILLATOR STRENGTH DETERMINATIONS
FORCED OSCILLATION OF SHALLOW INTEGRAL EQUATIONS IN FLUID ME	DRAFT SHIPS -		AFCRL-62-1085 N63-11012 03-07
FLIGHT SCIENCES LAB. TR65 FL			RELAXATION OF QUANTUM MECHANICAL SYSTEMS N63-11191 03-23
HEAT TRANSFER FROM HEATED DUCT AERONAUTICAL ENG. REPT483D	TO OSCILLATION N63-19847		ALKALI EARTH METAL IONS - OSCILLATOR STRENGTHS AND TRANSITION PROBABILITIES
PARAMETER OSCILLATION MEASUREM	ENTS IN REACTO	DRS -	AMC-RR-TR-62-8 N63-11867 04-23
THEORETICAL FOUNDATIONS EUR-221.E	M63-19970	19-23	REVIEW OF PARAMAGMETIC RESONANCE IN CRYSTALS AND SURVEY OF CRYSTALS FOR USE IN THREE-LEVEL MASERS IER SER. 60, ISSUE 439 N63-12746 06-25
OSCILLATING BODY OF REVOLUTION NASA-TH-X-50217	IN SUPERSONIC N63-19988		PEAK-OSCILLATOR STRENGTH IN ELECTRON SPECTRUM OF
FREQUENCY ANALYZER FOR MEASURING	NG OSCILLATION	NS IN A 20-15	NITROGEN AFCRL-63-212 N63-13049 07-12
			MAGNETIC CORE VOLTAGE-TO-FREQUENCY CONVERTER
CESIUM VAPOR THERMIONIC CONVERT DENSITY, OSCILLATIONS, OUTPUT IN TRIODES			NASA-TN-D-1677 N63-13101 07-09 INDUCTANCE AND CAPACITANCE DETERMINATIONS FOR
TEMPERATURE-FLOW INSTABILITY C		100000	CIRCULAR CUT QUARTZ PLATES FOR USE AS RESONATORS IN FILTER CIRCUITS AND OSCILLATOR UNITS
IN HELIUM LAMS-2934	N63-21017	21-13	N63-13202 07-09
INTRODUCING A SMALL PARAMETER :	IN INVESTIGATI	ION OF	IRREDUCIBLE REPRESENTATIONS OF GENERALIZED OSCILLATOR OPERATORS USED IN FIELD QUANTIZATION NYO-10253 M63-13322 07-23
SOVIET DATA PROCESSING	N63-21087	21-20	HIGH-POWER MILLIMETER-WAVE GENERATOR
LAMINAR HEAT TRANSFER FROM OSCI AFOSR-4906	N63-21710		N63-14471 10-06 ANALYSIS OF POWER OUTPUT VERSUS FREQUENCY OF
RESONANT MODES OF GAS PRESSURE SINUSOIDAL PRESSURE GENERATOR I CYLINDRICAL CHAMBER		IN	DOPPLER LINE SHAPE - OPICALLY PUMPED AND BASEOUS LASERS AND EFFICIENCY OF RUBY OSCILLATORS TRG-134-QRT-3 N63-14545 10-25
NASA-CR-51517	N63-22048	22-11	TECHNIQUES FOR SOLVING ANTENNA BREAKDOWN EQUATIONS
CIRCUITS USING SELF-OSCILLATING MAGNETIC-COUPLED MULTIVIBRATORS NASA-CR-50939		23-09	IN PRESENCE OF GASEOUS FLOW - ANTENNA ELECTRIC FIELD AND HYPERSONIC AERODYNAMIC FLOW FIELD N63-14637 10-11
DOUBLE-SIDEBAND REACTIVE MIXING TRANSMISSION & INTERACTION AT 1 FREQUENCIES	- SIGNAL		FLUID AMPLIFICATION - PNEUMATIC CONTROL OF GATE, FLIP-FLOP, OSCILLATOR, CLOCK, AND HALF ADDER TR-1114 N63-14779 11-11
TR-134	N63-22370	23-09	
COMBUSTION PRESSURE OSCILLATION BURNING PREMIXED OR UNMIXED GAS F-63-2		NTS	SCATTERING FUNCTION AND STRUCTURE FACTOR FOR HARMONIC OSCILLATOR N63-14952 11-23 TUNABLE PHASE STABILIZED MICROWAVE OSCILLATOR
CYLINDRICAL PLASHA LONG-WAVELEN			JPL-TR-32-392 N63-15277 12-08
OSCILLATIONS D1-82-0255	N63-22837	23-24	REPRESENTATION OF PARAFERMI RINGS - PARASTATISTICS OF OSCILLATORS
NONLINEAR LANDAU DAMPING OF OSC BOUNDED ELECTRON PLASMA - PERTU		Y	NYO-10262 N63-16022 13-23 CIRCUITRY FOR TRANSMITTING ULTRASTABLE TIME OR
NASA-CR-51825	N63-22875	23-24	FREQUENCY SIGNALS FROM OSCILLATORS TO MOVING AIRCRAFT & SPACECRAFT - DOPPLER SHIFT ELIMINATION
THEORY OF DYNAMIC SYSTEM STABIL STOCHASTIC VARIATION, CONTROL, OSCILLATION		TION,	AFCRL-63-93 N63-16281 13-09 MICROELECTRONICS - THIN FILM CIRCUITS AND PHASE-
	N63-22881	23-23	SHIFT OSCILLATOR N63-17365 15-06
CONSERVATION LAW FOR EXISTENCE ELECTROSTATIC OSCILLATIONS IN A MATT-210			OPERATING CONDITIONS OF SINGLE-STAGE SELF- OSCILLATOR WITH DELAY AIO-T-63-83 N63-19089 18-09
WALL CORRECTIONS FOR WINGS OSCI		NE	MICROWAVE OSCILLATOR FOR SPACE VEHICLE POWER
RECTANGULAR WIND TUNNELS UNDER ANTISYMMETRICAL LOADING	SYMMETRICAL OF		SQUECE W-J-61-336AR24 N63-20664 20-08
ARC-R6H-3312	N63-23250	24-03	ELECTRON RESONANCE SPECTROMETER UTILIZING
INCREASED HEAT TRANSFER BETWEEN COMPRESSIBLE FLUID UNDER PRESSU		N	GENERAL IZEO FEEDBACK MICROWAVE DSCILLATOR RADC-TDR-63-297 N63-22067 22-09
		-	X-BAND OSCILLATOR WITH FIELD EMISSION CATHODE AND
INTERNAL OSCILLATIONS OF RECTAN CYLINDRICAL THREE DIMENSIONAL R GRATE PARTITION	ESONATORS WITH	Historia HSACS	ELECTRON GUN RADC-TDR-63-317 N63-22069 22-09
JPRS-21550			DIFFRACTION LIMITED RUBY OSCILLATOR N63-23791 24-25
			DSCILLDSCOPE CF FREQUENCY ANALYSIS
	M MULECULE -		SYSTEM FOR RECORDING AND PROCESSING TRANSIENT-

ID

NASA-TN-D-1320 N63-12312 05-20	SLAC-12 10-12 10-23
FILM ANALYZER - SCANNING DEVICE FOR PHOTOGRAPHIC PROBLEM SOLVING, OSCILLOSCOPE TRACES, SPARK CHAMBER PICTURES CENN-63-10 N63-17467 15-15	INTERACTION OF LASER LIGHT WITH METAL - ELECTROM- OPTICS INTERACTION IN METAL VAPORIZATION RM-3560-PR N63-14968 11-25
CERN-63-10 N63-17467 15-15	STOCHASTIC PROCESS APPLIED TO OPTIMIZING SYSTEM
OSEEN APPROXIMATION WAKE ANALYSIS BEHIND OSCILLATING REENTRY VEHICLE USING OSEEN LINEARIZATION - DOWNRANGE ANTIMISSILE	OUTPUT MIT-TR-391 N63-14965 11-20
MEASUREMENT PROGRAM DAMP-TM-62-27 N63-15757 12-30	OV-1A AIRCRAFT S AO-1AF AIRCRAFT
S ORBITING SOLAR OBSERVATORY /OSO/	OVER-WATER FLIGHT AIRCRAFT SAFETY IN OVER-WATER FLIGHTS - TEN YEAR STUDY N63-14297 10-04
OTOLITH RESPONSE OF OTOLITH ORGANS OF CAT TO TILTED POSITION SAM-TDR-62-132 N63-13588 08-16	HINIMUM TIME TRACT DATA IN AIRWAYS DESIGN OF LONG RANGE AND OVER-OCEAN ROUTES AD-294393 N63-16105 13-22
OTOLOGY PHYSIOLOGICAL ACCELEROMETERS - BIOMECHANICS,	OVERSHOOT POSSIBLE CAUSALITY OF RADIATION OVERSHOOTS IN WAKE
HUMAN TOLERANCE, OTOLOGY, WEIGHTLESSNESS N63-12849 07-16	OF PROJECTILE BY DECREASING TEMPERATURE - HYDROCARBON ABLATORS AE62-0814 N63-13969 09-30
OTTO FUEL CHEMICAL COMPOSITION, HEATS OF COMBUSTION & MOLECULAR BOND ENERGY OF FUELS — FUEL CONSUMPTION OF OTTO ENGINES N63-18600 17-26	OXIDATION CF CHEMICAL REACTION CF COMBUSTION CF COMBUSTION
OUTER RADIATION BELT CF ARTIFICIAL RADIATION BELT CF INNER RADIATION BELT	CF DXYGEN SURVEY OF FRICTION CORROSION WGL PAPER-60 N63-10055 01-17
CF TRAPPED RADIATION CF VAN ALLEN BELT ELECTRONS IN THE EARTHS OUTER RADIATION BELT	OXIDATION PROTECTION OF REFRACTORY METALS IN AEROSPACE APPLICATIONS N63-10385 01-13
N63-10905 02-28 ELECTRON ENERGY SPECTRUM IN OUTER RADIATION BELT -	ABLATION OF GRAPHITE IN DISSOCIATED AIR - PART I, THEORY
IONIZATION ENERGY LOSS, MULTIPLE AND ELECTRON	CASALLING DIRECTLY, SETTINGS, FROIT AND AND AND AND AND
SCATTERING NASA-TN-D-1717 N63-13722 08-28	A VACUUM-STABLE MICROBALANCE FOR HIGH TEMPERATURE OXIDATION ANALYSES ARL/MET-15 N63-10876 02-15
CHANGE IN BOUNDARY OF OUTER RADIATION ZONE FOLLOWING MAGNETIC STORM OF SEPTEMBER 30, 1961 — EXPLORER VII DATA ON TRAPPED ELECTRON INTENSITIES SUI-63-7 M63-15086 11-28	PROTECTIVE COATINGS FOR REFRACTORY NETALS, MOLYBDENUM ALLOYS N63-10966 02-18
VAN ALLEN BELT IN AUGUST AND SEPTEMBER 1959 - PROPERTIES OF OUTER BELT MEASURED BY EXPLORER VI	STRUCTURE AND PROPERTIES OF PROTECTIVE COATINGS - HIGH TEMPERATURE OXIDATION
N63-15089 11-28 STUDY OF ENERGY RADIATION IN OUTER VAN ALLEN ZONE	OXIDATION OF URANIUM CARBIDE BY CARBON DIOXIDE NAA-SR-7402 N63-11026 04-07
FROM EXPLORER VI SATELLITE DATA ACQUISITION DURING AUGUST AND SEPTEMBER 1959 N63-15091 11-28	INTERACTIONS IN METAL CRYSTALS AND KINETICS OF METAL OXIDATION REACTIONS N63-12578 06-18
GROWTH OF KNOWLEDGE OF EARTH OUTER RADIATION BELT N63-16434 14-28	EFFECTS OF GASEOUS DIFFUSION ON RATE OF OXIDATION OF METAL FORMING VOLATILE OXIDE
ELECTRON LOSS RATE FROM OUTER RADIATION BELT NASA-TH-X-50017 N63-17104 15-28	M63-13171 07-07 GRAPHITE USE IN AIR-COOLED NUCLEAR REACTORS AND
SPACE RADIATION MAP - INNER AND OUTER RADIATION BELT, AURORAL ZONE, INTERPLANETARY SPACE N63-18145 16-28	PROBLEMS OF OXIDATION, RADIATION AND EMERGY STORAGE BML-758/7-281/ M63-13553 08-19
PROTONS IN OUTER RADIATION BELT BY SCOUT ROCKET	CANTON MILESPANA
SCINTILLATION SPECTROMETER AFSWC-TDR-62-105 N63-18796 18-28	WITH UMALLOYED TUNGSTEN N63-13556 08-18
GEOMAGNETICALLY TRAPPED PARTICLE INTENSITIES, FLUCTUATIONS, DISTRIBUTIONS, AND SOURCES FOR INNER AND OUTER RADIATION BELTS - SATELLITE MEASUREMENTS N63-23447 24-28	MICROBIOLOGICAL WASTE DISPOSAL TECHNIQUES FOR SPACE FLIGHT APPLICATION - BIOCIDE TREATMENT. DEHYDRATION, CHEMICAL & MICROBIOLOGICAL OXIDATION ARRL-TOR-62-142 M83-14177 09-16
OUTFLOW LINEAR THEORY OF THIN JET AND CAVITATION EFFECTS CALCULATION OF OUTFLOWS BY RHEOELECTRICAL SIMULATION N63-11328 03-11	PHYSICAL AND CHEMICAL PRINCIPLES AFFECTING HIGH TEMPERATURE MATERIALS FOR ROCKET MOZZLES - OXIDATION, CORROSION, THERMAL EXPANSION N63-14376 10-07
CRANIAL BLOOD CIRCULATION ANALYSIS - VENGUS BLOOD OUTFLOW MECHANISM NASA-TT-F-163 N63-15511 12-16	HIGH TEMPERATURE OXIDATION AND BEHAVIOR OF TANTALUM AND TANTALUM BASE ALLOYS AR1-62-397 M63-14590 10-18
OUTPUT SPACE-CHARGE LIMIT AND CONFINEMENT IN PARTICLE ACCELERATION WITH HIGH-INTENSITY LIGHT WAVES -	OXIDATION REINFORCEMENT OF IRON-NICKEL-CHRONIUM ALLOYS WITH ALUMINA WHISKERS M63-15191 11-18
LASER RADIATION FOR ACCELERATION	OXIDATION OF HEAT RESISTANT TRON- AND NICKEL-BASE

COMPRESE FOR LACO SPANNING PROPERTY PROPERTY REPORT OF THE PROPERTY

ENVIRONMENT	PERATURE NUCLEAR REACTOR N63-15365	12-18	STERNAL SECTION SOLVED AND LOSS OF THOSE SECTION SOLVED	N63-10103	01-18
	DATION AND DISSOLUTION O	F	ELECTRICAL CONDUCTIVITY, OXIDATIO MECHANICAL PROPERTIES OF CONDUCTO TEMPERATURES - PURE METALS AND AL ASD-TRD-62-481	DRS AT ELEVA	TED 09-18
		1400			marsa h
ALLOYS BETWEEN 1000	ON OF REFRACTORY METALS AND 2000-DEG C - METAL HOLYBDENUM SILICIDES H63-15880	13-18	OXIDATION RESISTANCE OF MOLYBDENU YTTRIUM, SAMARIUM AND ZIRCONIUM -	RARE EARTH	
	OF URANIUM DIOXIDE IN AI N63-16141		OXIDATION RESISTANCE OF URANIUM D MICROSPHERES COATED WITH OXIDES O BERYLLIUM OR MAGNESIUM BMI-1625		14-07
OF ALLOYS	OF BINARY AND TERNARY AL XIDE DISPERSION STRENGTH N63-16227	ENING	HIGH TEMPERATURE OXIDATION-RESIST TANTALUM ALLOYS, NIOBIUM, TUNGSTE	ANT COATING	S FOR
					17-1930
UREY-CRAIG GROUPS OF OXIDATION NASA-CR-50011	F CHONDRITES AND THEIR S N63-16720	TATES 14-07	ROLLING AND EXTRUSION OF POWDER M MAGNESIUM OXIDE ALLOY, OXIDATION, EROSION RESISTANCE		
CYCLIC-STRAIN INDUC	ED OXIDATION OF HIGH		ASD-TDR-63-297	N63-16905	14-18
TEMPERATURE ALLOYS	N63-16974	14-18	IMPROVED OXIDATION RESISTANCE OF ALLOYING WITH RARE EARTH AND OTHE	R SELECTED	METALS
COPPER OXIDATION IN IRRADIATION EFFECTS				N63-17018	15-18
GA-3349	N63-17428		ADVANCED TURBINE ENGINE LUBRICANT THERMOSTABILITY, OXIDATION RESIST	ANCE, MINIM	UM
TURBINE ENGINES	N63-17858	16-17	DEPOSIT FORMATION HIGH TEMPERATURE NICKEL ALLOY CON		
STRESSES IN JET ENG	NULATING THERMAL AND OXI INES FOR OIL DEGRADATION N63-17859		OXIDE - OXIDATION RESISTANCE AND STUDIES		
14 (12) (12) (13) (13)	and the second second second	777			
CAVITATION, OXIDATI	N IN MANUFACTURE OF MATE ON, BONDING - IONIC CRYS	TALS -	CHROMIUM BASE ALLOYS EXHIBITING H STRENGTH, LOW TEMPERATURE DUCTILI RESISTANCE		
CAL-NH-1559-P-4	N63-17945	16-17	ASD-TDR-63-493	N63-18787	18-18
	ENYL ETHERS AND INTERMED M-LABELED POLYPHENYL ETH N63-18353		HIGH-TEMPERATURE OXIDATION PROTECT VANADIUM ALLOYS ARF-86001-4	caled survey.	GS FOR
OXIDATION OF TUNGST	EN AT ULTRAHIGH TEMPERATE N63-18738	URES 17-07	OXIDATION RESISTANCE OF ALUMINUM- INTERMETALLIC COMPOUNDS	NIOBIUM-TIT N63-20685	ANIUH 20-18
	ENUM DISULFIDE /MOLYBOEN			THE RESERVE	
IN DISTILLED WATER RAE-TRANS-1036	FACTORS AFFECTING DISSOLUTION N63-19141	18-07	OXIDATION-RESISTANT COATINGS FOR		21-17
10 2 X 1 2 2 1 1 2 2 4 2 14	F RADIOPROTECTORS ON	198	OXIDATION-RESISTANT PROTECTIVE CO STABILIZED ELECTRIC ARC AT TEMPER		ATER-
OXIDATION PRODUCTS			2325-DEG C	N63-21811	22-19
JPRS-20517	N63-19751	19-16	HIGH TEMPERATURE OXIDATION RESIST		IVE
AND OXIDATION STUDI			COATINGS FOR VANADIUM-BASED ALLOY	S N63-22058	22-18
	N63-19753		COATING PROCESSES TO DEVELOP OXID	ATION RESIS	TANT
MAGNESIUM ALLOYS	OF INTERNALLY OXIDIZED S: N63-20542		COATINGS FOR REFRACTORY METALS DMIC-MEMO-172	N63-22444	23-18
STRUCTURE OF MAGNES ALLOY - EFFECT OF T	IUM-THORIUM-ZINC-ZIRCONIC EMPERATURE, OXIDATION AND	UH		N63-22557	23-18
HYDROGENATION	N63-20695	21-18	SA ALUMINUM OXIDE		
KINETICS OF OXIDATE	N63-21276	21-18	SA DEUTERIUM OXIDE		MA
ROLE OF OXIDATION R	ATE IN HYDRIDING OF ZIRCO PHERES CONTAINING HYDROGI N63-22026	EN	SA HEPTOXIDE SA HACMESIUM OXIDE SA METAL OXIDE	VALUE AND	Sining LL
THERMOGRAVINETRIC ALL OF OXIDATION OF MOL	ND ELECTRON MICROSCOPIC		SA NITRIC OXIDE SA NITROUS OXIDE	NOT DESCRI	
SELENTUM DIOXIDE OX		24-07	SA STANNIC OXIDE SA TETROXIDE		CAM"
OXIDATION RESISTANCE HIGH-TEMPERATURE MA	TERIALS PROGRAM - OXIDAT	11/4	SA URANIUM OXIDE SA ZIRCONIUM OXIDE CF OXYGEN COMPOUND	3584010-324 W WG V A A W 105	192

AND

-18

-07

-17

VD -18

-17

18

ON 18

OR

17 M

17

19

18

18

COMPATIBILITY OF MATERIALS HEAT AND ETHYLENE OXIDE-FR	EON - SURVEYOR
SPACECRAFT PROGRAM	N63-10078 01-19
FORMATION REACTIONS OF NIT	ROXYCHLORIDE N63-10573 01-07
LARGE SHELL STRUCTURE DESI	
SPONTANEOUS MAGNETIZATION MAGNETIC RESONANCE EQUATIO	NS. FERRITES, NICKEL
OXIDE ASD-TDR-62-375	N63-10877 02-23
DETERIORATION OF CALCIA-ST REFRACTORY MATERIALS WASA-TN-D-1595	ABILIZED ZIRCONIA, N63-10986 02-18
HIGH-TEMPERATURE GROWTH ME	
CRYSTALS OF METAL OXIDES	N63-11183 03-25
NITROGEN AND OXYGEN RECOMB SURFACES, EFFECT OF TESLA RECOMBINATION HEAT TRANSFE	DISCHARGE ON
NASA-TH-D-1567	N63-11742 04-13
PLUTONIUM OXIDE - URANIUM HW-71232	OXIDE TESTS N63-12007 05-07
PROPERTIES OF PHOTODETECTO DATA FOR COPPER OXIDE AND AND THERMISTOR BOLOMETERS	INDIUM ANTIHONIDE CELLS.
10LC-575	N63-12409 06-15
ELECTRICAL PROPERTIES OF P RESISTIVITY, ACTIVATION EN POWER DETERMINATIONS	
HW-75120	N63-12410 06-23
ROCKET ENGINE STARTING WIT NITROGEN AND LIQUID AMMONI NACA-RM-E53F05	A BY FLOW-LINE ADDITIVES
HEATS AND FREE ENERGIES OF DXIDE AND STRONTIUM OXIDE	FORMATION OF BARIUM
DXIDE AND STRONTIUM OXIDE	N63-12778 06-19
HIGH TEMPERATURE HEAT CONT SESQUIOXIDES OF ERBIUM, HO	LHIUM, THULIUM, AND
YTTERBIUM	N63-12780 06-18
COMPATIBILITY OF TYPE 302- DXIDES OF PLUTONIUM AND UR	B STAINLESS STEEL WITH
AND NICKEL	N63-12993 07-16
URANIA-NEODYMIA COMPOSITIO	NS FOR NUCLEAR FUEL N63-13066 07-18
REACTIONS OF TITANIUM WITH DXYGEN UNDER SIMULATED SPA	GASEOUS AND LIQUID
IMPACT SENSITIVITY DMIC-MEMO-163	N63-13071 07-26
INTERFEROMETRIC MEASUREMEN OF OXIDES OF YTTRIUM, CERI	UM, SAMARIUM,
EUROPIUM, AND DYSPROSIUM BM-RI-6180	N63-13148 07-23
EFFECTS OF GASEOUS DIFFUSI OF METAL FORMING VOLATILE	ON ON RATE OF OXIDATION OXIDE N63-13171 07-07
RELATIVE SIGNS OF NUCLEAR SPIN COUPLING CONSTANT IN RESONANCE	STYRENE OXIDE BY DOUBLE
JPL-TR-32-310	MULTIPLICAD DAY MENTALE
DXIDATION OF TUNGSTEN-THOR WITH UNALLOYED TUNGSTEN RAC-1032	
CALCULATION FOR ZPR-VII LA	
EQUATION WITH THORIA-URANI	

ANL-6661 (N63-13606 08-26

DECREASING HOT CRACKS IN ALUMINUM ALLOYS AND INCREASING ALLOY DENSITY AND STRENGTH BY ALTERINI DXIDE COATING FORMATION N63-13618 08-SODIUM-COOLED REACTORS - FAST CERAMIC REACTOR -PLUTONIUM OXIDE/URANIUM OXIDE CERAMIC FUELS GEAP-4080 N63-13736 08-01 METAL DIAPHRAGM PRESSURE RELAY SYSTEM TO MEASURE VAPOR PRESSURES - TESTED WITH ARSENIC 111 OXIDE BM-RI-6212 M63-14255 10-15 FORMATION OF THERMAL OXIDES OF SILICON AND SURFACE COATING OF SILICON DEVICES AFCRL-63-21 M63-14533 10-09 MAGNETIC LOSS IN GARNET FERROMAGNETS -MAGNETOHETER, ELECTRIC & MAGNETIC PROPERTIES OF VANADIUM OXIDES AND TITANIUM OXIDES N63-14777 11-23 ISOMORPHIC AND MORPHOTAOPIC RELATIONSHIPS IN OXIDES OF TITANIUM DIOXIDE TYPE INCLUDING ANATASE AND BROOKITE RUTILES — CRYSTAL STRUCTURE STRUCTURE OF FERROUS-OXIDE INTERFACE OF IRON AND OXYGEN INSOLUBILITY IN HIGH PURITY IRON N63-15252 12-18 NECHANICAL PROPERTIES OF ZIRCONIUM ALLOYS -ZIRCALDY 2 - NIOBIUM OXIDE ALLOY RARE EARTH, HAFMIUM, THORIUM REFRACTORY ALLOYS AND MELTING RESEARCH CONSIDERATIONS - PROGRESS REPORT USBM-U-1031 M63-15730 12-18 SOLID STATE PHYSICS RED - SEMICONDUCTORS, MACHETOELASTICITY, ACOUSTICS OF STLICON OXIDE, LASERS FOR MIGH SPEED PHOTOGRAPHY, AND ALLOYS NO.LTR-62-125 N63-15802 13-25 DETERMINATION OF DAYGEN IN OXIDES OF PLATINUM AND OTHER REDUCIBLE OXIDES N63-15865 13-07 ENERGY CONVERSION OF SEMICONDUCTOR ELECTRODES FOR FUEL CELL APPLICATIONS - LITHIATED MICKEL OXIDE, ZINC OXIDE, ANTHRACENE, & PHENANTHRENE DATA. ASD-TDR-62-89 N63-16113 13-2: SELECTED BIBLIOGRAPHY OF OXIDES OF CADMIUN N63-16146 AEET/CD/11 INFRARED CONFIRMATION OF 6-FOLD COORDINATION OF SILICON IN STISMOVITE /SILICON OXIDE/ - CRYSTAL N63-16223 13-07 ULTRAVIOLET PHOTOVOLTAIC CONVERSION IN TITANIUM INORGANIC SUPEROXIDES - HISTORY, PREPARATION, AND STRUCTURE - AIR REGENERATIVE PROPERTIES RANGE-ENERGY RELATIONSHIPS FOR PROTONS AND ELECTRONS PENETRATING ALUMINUM, SILICON AND SILICON DIOXIDE Massanda N63-17142 - 15-20 ELECTRON SPIN RESONANCE STUDY OF PARTIALLY REDUCED VANADIUM PENTOXIDE SINGLE CRYSTALS NA3-17263 15-18 PLANETARY AERONOMY - ULTRAVIOLET ABSORPTION OF SULFUR DIOXIDE - DISSOCIATION ENERGIES OF SULFUR DIOXIDE AND SULFUR OXIDE GCA-TR-63-13-N N63-17320 15-07 VACUUM FURNACE FOR SINTERING CARBIDES AND OXIDES AERE-M-963 N63-17381 15-COLLOID ABSORPTION BANDS FOR CALCIUM-SODIUM FLUORIDES AND GESIUM BROWIDE - PILE IRRADIATION EFFECT ON TITANIUM DIOXIDE ELECTRIC RESISTANCE TID-17912 N63-17014 18-2:

HIGH TEMPERATURE NICKEL ALLOY CONTAINING THORIUM OXIDE - OXIDATION RESISTANCE AND FABRICATION

OX

EFFECT OF GAMMA IRRADIATION ON ELECTRICAL PROPERTIES OF SEMICONDUCTING OXIDE FILMS FTD-TT-62-414/144 N63-15904 ANT

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	STATE OF THE PARTY
STUDIES NASA-TN-D-1944 N63-18133 16-18	OXIDATION RESISTANCE OF URANIUM DIOXIDE
HIGH TEMPERATURE SPECTRAL EMISSIVITY OF YTTRIUM.	MICROSPHERES COATED WITH OXIDES OF ALUMINUM, BERYLLIUM OR MAGNESIUM BMI-1625 N63-16367 14-87
SAMARIUM, GADOLINIUM, ERBIUM AND LUTETIUM OXIDES	OXIDIZER NOS-16367 17-07
HIGH TEMPERATURE THERMODYNAMIC PROPERTIES OF	SA HIGH ENERGY OXIDIZER SA PROPELLANT OXIDIZER
LITHIUM OXIDE BY ELECTRIC DEFLECTION - POLARITY	EFFECT OF OXIDIZER PARTICLE SIZE ON ADDITIVE
STUDY BY MASS SPECTROMETER ARDD-006-9 N63-19215 18-07	AGGEOMERATION NASA-TN-D-1438 N63-10174 01-25
TITANIUM OXYGEN REACTIVITY - SHOCK AND IMPACT	IGNITION AND FLAMMABILITY STUDIES ON COMBUSTIBLES
SENSITIVITY IN SPACE VEHICLE ENVIRONMENT NASA-TH-X-50209 N63-19264 18-18	AND DXIDANTS OF FLIGHT VEHICLES ASD-TR-61-278, SUPPL. 1 N63-11160 03-26
DISPERSION STRENGTHENED NICHRONE THORIA ALLOYS - PHYSICAL PROPERTIES N63-19466 19-18	CHEMISTRY OF OXYFLUORIDES AS OXIDIZING AND FLUORINATING AGENTS
SOLVENT EXTRACTION - SPECTROPHOTOMETRIC METHOD	ARF-3227-2 N63-13272 07-07
FOR DETERMINATION OF COPPER IN TUNGSTEN METAL AND TUNGSTEN OXIDE	COLORED FLAME COMPOSITION OF FIREWORKS - EFFECT OF COMBUSTION, OXIDATION AGENTS & COLORING AGENTS
BH-RI-6277 N63-19800 19-07	TIL/T-5129 N63-14408 10-07
OXYGEN DIFFUSION THROUGH THORIUM OXIDE AND BORIDE	OXIDIZER RESEARCH - THERMOCHEMISTRY, STRUCTURE ANALYSIS, BOND ENERGY, LATTICE ENERGY AND HEAT OF
ASD-TDR-63-635 N63-20007 19-18	FORMATION S-13876 N63-15174 11-07
MATRIX AND COMPOSITE MATERIALS OF ZIRCONIUM OXIDE, THORIUM OXIDE, AND MAGNESIUM OXIDE WITH TUNGSTEN - PROTECTIVE COATINGS FOR THERMAL INSULATION	COMPATIBILITY OF STRUCTURAL MATERIALS WITH HIGH PERFORMANCE CRYOGENIC LIQUID OXIDIZERS CONTAINING
NASA-CR-50877 N63-20259 20-19	FLUORINE COMPOUNDS N63-19901 19-26
ELECTRICAL AND ELECTRONIC PROPERTIES OF CORDIERITE - TERMARY OXIDE SYSTEM 05-128 M63-20407 20-19	SOLUTION AND CONDUCTIVITY STUDIES IN FLUORINE CONTAINING LIQUID OXIDIZERS N63-22795 23-26
All the same of th	SYNTHESIS OF HIGH ENERGY LIQUID OXIDIZER BY
URANIUM OXIDE-LANTHANUM OXIDE COMPOSITIONS - PHASE RELATIONSHIPS, VOLATILITY, CRYSTAL STRUCTURE, G APPLICATIONS AS REACTOR MATERIAL	FISSION FRAGMENT RADIOLYSIS AN-1048 N63-23758 24-23
ANL-6711 N63-20441 20-26	OXYGEN SA LIQUID OXYGEN /LOX/
OXYGEN PRESSURES CALCULATED FROM HYDROGEN-WATER SYSTEM AND FROM DISSOCIATION OF CUPRIC OXIDE	CF OXIDATION
ANL-6747 N63-20711 21-07	ELECTRICALLY-REGENERATIVE HYDROGEN-DXYGEN FUEL CELL
DUCTILE VANADIUM METAL FROM CALCIUM REDUCTION OF VANADIUM OXIDE IN BOMBS	ARS PAPER-2563-62 N63-10270 01-06
BM-RI-6284 N63-21207 21-19	A HYDROGEN DIFFUSION CATHODE FOR USE IN A WATER ELECTROLYSIS CELL
OXIDES FOR HIGH TEMPERATURE CHEMICAL SEPARATION OF OXYGEN & NITROGEN N63-21803 22-07	AMRL-TDR-62-94 N63-10283 01-16
ELECTRON PARAMAGNETIC RESONANCE OF IMPURITY IONS	EFFECTS OF CHANGES IN BLOOD CARBON DIOXIDE ON BRAIN OXYGENATION AT 147-MM HG
IN CRYSTAL LATTICES - THEORY, EXPERIMENT, SINGLE CRYSTAL PREPARATION, AND SULFUR MONOXIDE STUDY	SAM-TDR-62-70 N63-10322 01-16
ARL-63-126 N63-22497 23-25	KINETICS OF HIGH TEMPERATURE REACTION BETWEEN
FAST REACTOR FUEL CYCLE COSTS AND TEMPERATURE	MAGNESIUM POWDER AND OXYGEN PA-TR-3013 N63-10425 01-26
COEFFICIENTS OF REACTIVITY FOR PLUTONIUM DIOXIDE- STAINLESS STEEL & PLUTONIUM-URANIUM DIOXIDE SYSTEM	SAFETY OF HIGH-PRESSURE DXYGEN SYSTEMS FOR LIFE
APDA-154 N63-22732 23-23	SUPPORT IN AEROSPACE VEHICLES
ACUTE MAMMALIAN TOXICITY OF RARE EARTH NITRATES &	AMRL-TDR-62-102 N63-10451 01-16
OXIDES - RAT STUDY SAM-TDR-63-38 N63-22827 23-16	DETERMINATION OF DXYGEN IN LIQUID ALKALI METALS DM-62-238 N63-10549 01-07
INFRARED ABSORPTION SPECTROSCOPY IN RESEARCH ON HAFNIUM OXIDE AND ZIRCONIUM OXIDE	MECHANICS OF CHEMICAL REACTIONS
ASD-TOR-63-789 M63-23663 24-18	T1L/T-5327 N63-10591 02-07
KIDE FILM BEARING MATERIALS FOR PROCESS FLUID LUBRICANTS -	ANALYSIS OF IONIZED GASES - MASS SPECTROMETRY GA-3358 N63-10676 02-23
MATER, CORROSION, OXIDE FILMS MTI-62TR20 N63-10096 01-17	SHOCK TUBE STUDY OF THE RECOMBINATION OF OXYGEN BY
PHOTOCONDUCTIVITY OF SENICONDUCTORS - ZINC-	ARGON CATALYSTS AT HIGH TEMPERATURE AVCO-EVERETT RES. REPT142 N63-10887 02-07
TELLURIUM AND ZINC OXIDE N63-11970 05-25	OXYGEN EVOLUTION IN PHOTOSYNTHESIS N63-11473 03-16
ELECTRON GUNS FOR EVAPORATION OF REFRACTORY OXIDE	CROSS SECTIONS FOR NEUTRON INTERACTIONS WITH
ESL-TM-141 N63-12045 05-17	OXYGEN AND DEUTERIUM NOL-TR-40 N63-11681 04-23
TUNNELING BETWEEN SUPERCONDUCTORS WITH OXIDE FILM INSULATION N63-15070 11-25	THERMOCHEMISTRY OF OXYGEN-FLUORINE BONDING UTC-2002-QT7 N63-11690 04-07
EFFECT OF GAMMA IRRADIATION ON ELECTRICAL	CALCULATION FOR JUNEAULY LATTICE IS LANGUAGED WITTON TO

EFFECTS OF ION-INDUCED DEFECTS ON SURFACE REACTIONS - ADSORPTION OF OXYGEN ON GALLIUM

13-25

-07

-25

23

-26

-07

OF

-07

F

07

26

26

23

36

6

6

6

6

ANTIMONIDE ANTIMONIDE N63-11711 04-07 C-480 NITROGEN AND OXYGEN RECOMBINATION AT OXIDE SURFACES, EFFECT OF TESLA DISCHARGE ON RECOMBINATION HEAT TRANSFER WASA-TN-D-1567 VENTILATORY RESPONSE TO CARBON DIOXIDE AND TO OXYGEN AFTER ACCLIMATIZATION TO CARBON DIOXIDE AHRL-TDR-62-136 N63-11755 04-16 CHEMICAL INHIBITION OF HYDROGEN-OXYGEN REACTION ASD-TDR-62-1042 N63-12171 05-26 CERENKOV SCINTILLATION COUNTER MEASUREMENTS OF BERYLLIUM, BORON, CARBON, MITROGEN, OXYGEN IN SUNSPOT COSMIC RADIATION M63-12179 SCHLIEREN PHOTOGRAPHY STUDY OF COMBUSTION OF HYDROGEN-OXYGEN MIXTURE AND VELOCITY VARIATION OF PROPAGATED SHOCK WAVES WITH TIME AS A FUNCTION TIME ANALYSIS STUDY BY PHOTOGRAPHY OF COMBUSTION PROCESSES, GAS EXPLOSION, AND MAYE PROPAGATION IN VESSELS OF VARIABLE VOLUME USING HYDROGEN-OXYGEN N63-12265 05-26 EFFECT OF DECREASED BAROMETRIC PRESSURE ON RESPIRATORY OXYGEN REQUIREMENTS AND BREATHING ODES IN MAN N63-12462 SAM-TDR-62-94 06-16 INJECTION TECHNIQUES FOR FLUORINE, OXYGEN, AND HEPTANE IN 200-POUND THRUST ROCKET ENGINE N63-12511 06-26 NACA-RM-E56J11 INJECTION TECHNIQUES FOR 200-POUND THRUST AMMONIA-OXYGEN ROCKET ENGINE NACA-RM-E57HO1 N63-12544 06-27 OXYGEN AND NITROGEN CHEMISTRY OF UPPER ATMOSPHERE LABORATORY SPECTRA OF THE ULTRAVIOLET OXYGEN NIGHT AIRGLOW - ATOMIC OXYGEN EXCITATION MECHANISMS N63-13014 07-12 SPECTRAL ABSORPTION COEFFICIENT OF HEATED AIR AND SLAB OF MOLECULAR OXYGEN DASA-1348 REACTIONS OF TITANIUM WITH GASEOUS AND LIQUID

OXYGEN UNDER SIMULATED SPACE FLIGHT CONDITIONS —
IMPACT SENSITIVITY

NAME | 18071 | 07-2 DMIC-MEMO-163 N63-13071 07-26 EFFICIENCY OF OXYGEN MASKS DETERMINED BY MEASURING NITROGEN CONTENT WITHIN THE MASK CARI-62-21 N63-13325 IONIZATION OF NITROGEN AND DXYGEN MOLECULES BY BEAMS - ELECTRON IMPACT IONIZATION AND CHARGE TRANSFER NEUTRALIZATION N63-13594 OF 08-23 REACTION OF DAYGEN ATOMS IN THE /D/ STATE WITH NITROGEN JPL-TR-32-288 N63-13930 DISSOCIATION OF OXYGEN MEASURED BY ROCKETBORNE MASS SPECTROMETER N63-14046 0 ORGANIC ION-EXCHANGE MEMBRANES FOR HYDROGEN-OXYGEN FUEL CELLS N63-14124 09-06 INORGANIC ION EXCHANGE MEMBRANES FOR HYDROGEN OXYGEN FUEL CELLS N63-14125 09-06 METALLIC ELECTRODES FOR HYDROGEN-OXYGEN FUEL CELLS N63-14127 09-06 HYDROGEN AND OXYGEN ELECTRODES FOR OPERATION IN ACID HEDIA OF LIQUID ORGANIC FUEL CELLS — CATALYZED ACTIVATED CARBON ELECTRODE PERFORMANCE N63-14128 09-06

MECHANISM OF OXYGEN EVOLUTION AT ELECTRODES -REVERSIBLE ELECTRODES - FUEL CELL APPLICATIONS

AT-10-85 6317425348-1 80124451 N63-14129 10 09-06 TS ORGANIC GEL ION EXCHANGE MEMBRANE HYDROGEN-DXYGEN FUEL CELL N63-14131 09-06 FUEL CELL CONTROLS FOR FUEL CELL BATTERIES N63-14138 09-06 IGNITION GEOMETRY INFLUENCE ON INITIAL FLAME ACCELERATION IN SPARK-IGNITED, STOICHIOMETRIC HYDROGEN-DXYGEN MIXTURES N63-14324 1 CHEMICAL REACTION KINETICS BETWEEN OXYGEN AND HYDROGEN IN ELECTRICAL DISCHARGE AND FIRST ORDER PARALLEL-CONSECUTIVE IRREVERSIBLE REACTIONS FTD-TT-62-1171/16264 EFFECT OF OXYGEN ON MECHANICAL PROPERTIES OF TUNGSTEN -- TENSILE STRENGTH NASA-TN-D-1581 N63-14403 10-0 OXYGEN-WATER VAPOR MIXTURES UNDER RF EXCITATION BY ELECTRON-PARAMAGNETIC RESONANCE TECHNIQUES M63-14516 10-07 AOMC-RR-TR-62-3 THERMOPHYSICAL PROPERTIES OF OXYGEN AT LOW TEMPERATURE - BIBLIOGRAPHY NRS-TN-137 NRS-TN-137 NAS-14810 11-19 NBS-TN-137 N63-14810 EFFECT OF OXYGEN IN SILICON AND GERMANIUM - HEAT TREATMENT AND RESISTIVITY N63-14838 11-19 ELECTRON TRANSITION FOR AIR OXYGEN AND MOLECULAR NITROGEN IN TEMPERATURE RANGE 4000 TO 9000-DEG AVCO-EVERETT RES. REPT.-149 N63-14894 11-23 DECOMPOSITION OF ETHYLENE AND ETHANE IN HYDROCARBON-DXYGEN-HYDROGEN FLAMES SINGLE-NUCLEON DAMPING OF VIBRATIONS IN OXYGEN OVER GIANT DIPOLE ENERGY RANGE N63-14975 11-23 OXYGEN-HYDROGEN FUEL FOR HOPE SPACECRAFT - FUEL CELL - DESCRIPTION, DEVELOPMENT, RECOMMENDATIONS ASD-TDR-62-522 N63-15030 11-06 HYDROGEN-DXYGEN FUEL CELL POWER SUPPLY FOR HOPE PROJECT N63-15187 11-06 OXYGEN-HYDROGEN FUEL FOR HOPE SPACECRAFT - FUEL CELL DRAWINGS ASD-TDR-62-522, APPEND. NA3-15188 11-06 STRUCTURE OF FERROUS-OXIDE INTERFACE OF IRON AND OXYGEN INSOLUBILITY IN HIGH PURITY IRON N63-15252 12-18 THERMOCHEMISTRY OF DXYGEN-FLUORINE BONDING UTC-2002-FR N63-15440 12-07 HIGH TEMPERATURE CORROSION STUDIES - NICKEL AND COBALT IN AIR AND OXYGEN BM-RI-6231 N63-15512 12-18 QUANTITATIVE DETERMINATION OF DXYGEN IN URANIUM MONOCARBIDE BY VACUUM NOT EXTRACTION EUR-204.I N63-15648 12-07 EJECTION OF ELECTRONS FROM SURFACE OF TUNGSTEN BY LOW ENERGY ION, HELIUM, HYDROGEN, NITROGEN AND DXYGEN N63-15745 12-25 SOLUBILITY AND DIFFUSION OF GASES IN BERYLLIUM -OXYGEN, NITROGEN AND HYDROGEN ASD-TDR-62-1018 N63-13750 12-18 HYDROGEN AND OXYGEN EVOLUTION - INFLUENCE OF ADSORBED SUBSTANCES ON PLATINUM AND NICKEL ELECTRODES ASD-TOR-62-1067 N63-15808 13-07 DETERMINATION OF OXYGEN IN OXIDES OF PLATINUM AND OTHER REDUCTBLE OXIDES NO3-15865 13-07 EFFECT OF CHEMISORBED DXYGEN ON PHOTOCONDUCTIVE PROCESS IN RUTILE N63-16172 13

HIGH TEMPERATURE TRANSPORT PROPERTY OF THE PRO			ARGON MIXTURES - OPTICAL REFLECTIVITY STUDIES N63-18547	17-26
RAD-TM-63-7 FORMATION OF DETONATION WAVES BY	OXYGEN-HYDI		STANDING DETONATION WAVES - HYDROGEN-DXYGEN IGNITION DELAY - VIBRATIONAL RELATION EFFECTS THO-DIMENSIONAL EFFECTS IN GASEOUS DETONATION	
FUEL MIXTURE IN VARIABLE GEOMETR MASA-TN-D-1983	N63-16746	14-11	N63-18550	17-11
EQUILIBRIUM GAS DYNAMICS AND PROI INCIDENT AND REFLECTED NORMAL SHI TUBE - NITROGEN AND DXYGEN	OCK WAVES II		RADICAL CONCENTRATIONS AND REACTIONS IN METHI OXYGEN FLAME N63-18556	ANE- 17-26
ARC-CP-626	N63-16881	14-11	FLAME ANALYSIS - PROPAGATION VELOCITY IN HYDROXYGEN SUPPORT AT ATMOSPHERIC PRESSURE	
CATALYTIC ACTIVITY AND ATOMIC RESTEP FUNCTION OXYGEN FLOW - HEAT CAL-AF-1412-A-2			N63-18557 REVERSIBLE CHEMICAL REACTIONS OF HYDROXYL RAI	17-26 DICALS
VIBRATIONAL RELAXATION IN OXYGEN TEMPERATURE	AT HIGH		WITH HYDROXYL IONS, HYDROGEN MOLECULES, AND OXYGEN AND HYDROGEN IONS N63-18562	17-07
TG-230-T330	N63-16948	14-11	KINETICS OF HYDROCARBON-DXYGEN-NITROGEN FLAMS SYSTEMS AND MOLECULAR WEIGHTS OF CHAIN CARRIE	
PHOTOELECTRIC WORK FUNCTION AND PROPERTIES OF NIOBIUM SINGLE CRY	STALS		N63-18565	17-07
AFCRL-62-949/SUPPL./ BRAIN COMPONENTS WHICH CONTROL O	N63-17083		LIQUID-VAPOR EQUILIBRIUM IN ARGON, OXYGEN AN NITROGEN MIXTURES AT 20 ATMOSPHERES PRESSURE N63-18780	18-11
AND BODY KINEMATICS AAL-TDR-62-15	N63-17347	15-16	PHASE DIAGRAM RELATIONSHIPS FOR TITANIUM-	3011
CONCENTRATION OF OXYGEN IN LIQUI	SODIUM -	dana	ZIRCONIUM-OXYGEN SYSTEM ARL-63-104 N63-18794	18-18
ELECTROCHEMICAL CELL UNC-5028	N63-17426	15-07	COLLISION BETWEEN HELIUM ION AND OXYGEN MOLEG GA-3503 N63-18801	CULE 18-12
CORROSION MECHANISM OF ZIRCONIUM DIFFUSION OF OXYGEN IN ZIRCONIUM GEAP-3999		LOYS - 15-18	MATHEMATICAL MODEL AND TESTS OF ROTATION DETONATION WAVE ROCKET ENGINE USING HYDROGEN	AND
ELECTRON COLLISION WITH ATOMIC A	ND MOLECULAI		OXYGEN AS PROPELLANTS N63-18807	18-27
DXYGEN GA-4313	N63-17961	16-11	CALIBRATION OF FLYABLE MASS SPECTROMETER FOR NITROGEN AND DXYGEN ATOMS AFCRL-63-437 N63-18808	18-15
INDRGANIC CHEMISTRY - FORMATION (COMPOUNDS AT LIGHT-ACTIVATED CATA ACTION OF EXCITED DXYGEN ANION AFCRL-63-608		ES BY	OXYGEN INDUCED GRAIN BOUNDARY AND SURFACE HARDENING IN NICKEL-ALUMINUM INTERMETALLIC COMPOUNDS - PEST REACTIONS No.3-18809	18-18
INTERACTION ENERGIES AND TRANSPOI LITHIUM, HYDROGEN AND DXYGEN-HYDI AT HIGH TEMPERATURES	RT COEFFICIE ROGEN GAS MI	ENTS OF	MATHEMATICAL ANALYSIS OF MIXING OF T EQUALS T EQUALS 1 COLLECTIVE STATES IN GIANT RESONAL REGION OF DXYGEN-16 - WAVE FUNCTIONS	NCE
NASA-CR-50453 MULTICELL REGENERATIVE HYDROGEN-	N63-18321	17-23	N63-18989 EFFECT OF HYPOXIA ON RATE OF OXYGEN CONSUMPT	18-23
ASSEMBLIES NASA-CR-50564		17-09	MICE UNDER VARIOUS ENVIRONMENTS SAM-TDR-62-122 N63-19095	18-16
DETECTION OF OXYGEN BY GAS-PHASE LOW TEMPERATURES AND PRESSURES	POL AROGRAPI		TITANIUM DXYGEN REACTIVITY - SHOCK AND IMPAC SENSITIVITY IN SPACE VEHICLE ENVIRONMENT	
NASA-CR-50605 DESIGN, DEVELOPMENT AND TESTING (N63-18489	17-07	NASA-TM-X-50209 N63-19264 CROSS SECTIONS FOR CHARGE TRANSFER BETWEEN 0	18-18
REGENERATIVE HYDROGEN-DXYGEN FUEL		17-23	ATOMS AND DXYGEN AND HYDROGEN IONS IN A CROSS BEAM OF ENERGY - 140 TO 10000 ELECTRON VOLTS	SED
STABILITY OF PROPANE-OXYGEN FLAM PRESSURES IN TURBULENT FLOW	N63-18502	17-26	GA-4332 N63-19342 NITRIC OXIDE AND MOLECULAR DXYGEN IN UPPER ATMOSPHERE OF EARTH N63-19684	19-12
COMBUSTION OF HYDRAZINE AND DINE NITRIC OXIDE, MITROUS DXIDE AND	THYL HYDRAZ: DXYGEN N63-18514	INE, 17-26	OXYGEN DIFFUSION THROUGH THORIUM OXIDE AND BURNTECTED GRAPHITE	
SELF-INHIBITION OF GASEOUS EXPLO			ASD-TDR-63-635 N63-20007	19-11
DF HYDROGEN-OXYGEN EXPLOSIONS BY		IDA-VIII	LIQUID-VAPOR EQUILIBRIUM OF DXYGEN-NITROGEN- MIXTURES N63-20374	ARGON 20-1
SHOCK TUBE IGNITION OF METHANE-OF		RES 17-26	RECOVERY OF OXYGEN FROM CARBON DIDXIDE BY PH CHEMICAL METHODS - AEROSPACE MEDICINE N63-20568	VSICO-
COMBUSTION ANALYSIS OF HYDROGEN, NITROGEN DIOXIDE MIXTURES	OXYGEN AND N63-18520	17-26	OXYGEN PRESSURES CALCULATED FROM HYDROGEN-WA SYSTEM AND FROM DISSOCIATION OF CUPRIC OXIDE	TER
DETERMINATION OF RATE CONSTANTS I	N AND OXYGE		ANL-6747 N63-20711	21-0
EDUCATION OF ACCESSES	73. Life 13.55 p. 10.	17-07	SELECTION OF SPACE CABIN ATMOSPHERES - DXYGE TOXICITY NASA-TN-D-2008 N63-20754	21-1
SPHERICAL DETONATIONS OF ACETYLES MIXTURES AS FUNCTION OF NATURE AS INITIATION			IONIC PRODUCTION AND RECOMBINATION OF DXYGEN	•
STRUCTURE OF DETONATION WAVES IN	HYDROGEN-O	KYGEN-	NITROGEN, AND NITRIC OXIDE AND THEIR IONS IN IONOSPHERE	THE

-26

-11 -26 EN--26 ALS -07

-07

-11

-18 12

-27

-15

-18 10 -23 IN -16

18 N -23 12 E

18 N -11 0-16

07

16

AFCRL-63-834	N63-21170	21-12	SYNTHESIS OF NEW OXIDIZERS FOR SOLID PROPELLANTS - PREPARATION AND PURIFICATION IN LIQUID DXYGEN
GRAPHITE-DXYGEN HIGH TEMPERATU IS-665	RE FUEL CELL N63-21459	22-06	FLUORIDE MRB-2022Q2 NA. NA. N63-14221 09-26
RESISTANCE OF CERAMIC FUEL-PAR REACTIONS WITH DXYGEN AND GRAP BMI-1647	HITE	22-26	DXYGEN FLUORIDE REACTIONS - DIDXYGEN DIFLUORIDE SUBSTITUTION & ADDITION PRODUCTS, ELECTRIC SPARK PREPARATION OF XENON AND KRYPTON TETRAFLUORIDES
OXIDES FOR HIGH TEMPERATURE CH OXYGEN & NITROGEN	NEMICAL SEPARAT		N63-15160 11-07 CHEMICAL ANALYSIS OF CHEMICAL REACTIONS OF DAYGEN-
NONREACTING QUENCHING COMPOUND PRODUCTION IN ATOMIC NITROGEN MIXTURE			FLUORINE COMPOUNDS ARF-3227-3 CHEMICAL REACTIONS OF DXYGEN FLUORIDES WITH
HYDROGEN-OXYGEN FUEL CELL POWE FABRICATION, TEST RESULTS		17.00	INORGANIC COMPOUNDS IITRI-3227-4 N63-19207 18-07
NASA-CR-51544 BEHAVIOR OF HYDROGEN COMPARED NITROGEN & ARGON USING EQUIVAL		22-06	OXYGEN DEFICIENCY STRESS TEST OF RELATIONSHIP BETWEEN APNEIC PAUSE IN RESPIRATION & DAYGEN DEFICIENCY DVL-228 N63-19971 19-16
RSIC-46 COMBUSTION TESTS OF DXYGEN-HYD	N63-22460 PROGEN-HELIUM C		RESISTANCE OF ADRENALECTOMIZED AND HYPOPHYSECTOMIZED RATS TO ACUTE OXYGEN
MIXTURES AT LOADING PRESSURES NASA-TN-D-1892	UP TO 8000-PS1 N63-22598	23-26	DEFICIENCY - SPACE BIOLOGY N63-21534 22-16 OXYGEN DETECTOR
MICROWAVE DETERMINATIONS OF AN AND ELECTRON COLLISION PARAMET DXYGEN			OXYGEN DETECTOR USING PHYSICAL TRANSDUCERS N63-22411 23-16
AFCRL-63-358 CAPILLARY HYDROGEN-DXYGEN FUEL	N63-22734 CELL - ORBIT	23-23	OXYGEN REGULATOR PHYSIOLOGICAL ASSESSMENT OF ROBERTSHAW-FULTON REGULATOR TYPE 20004
PACKAGE, THERMAL MANAGEMENT, A	NO EVAPORATIVE N63-22791	23-26	FPRC/MEMO-175 N63-11773 04-16 ANL 350 HELIUM-ATMOSPHERE SYSTEM - MOISTURE AND
HYDROGEN-OXYGEN FUEL CELL POWE ENERGY BALANCE, LIFE, AND CHAP		23-26	OXYGEN REMOVAL, PURIFICATION, RADIOACTIVE MAYERIAL PROCESSING ANL-6489 N63-13774 08-10
PROTON AND ELECTRON SCATTERING MOLECULES AFCRL-63-697	PROGRAMME WELLS		HYPOTHERMIA INDUCED BY PUMPING OXYGEN REGULATED BLOOD THROUGH HEAT EXCHANGER AAL-TDR-62-30 N63-17650 16-16
NITRATE ION DISSOCIATION IN FU NITROGEN DIOXIDE-OXYGEN ELECT CARBONATE ION DISSOCIATION CO	RODE & NITRATE		UNSUITABILITY OF FIRENEL /TILT VALVE/ DXYGEN REGULATORS FOR USE IN PRESSURE ECONOMIZER SYSTEM FPRC/MEMO-190 N63-20110 20-16
IS-618 CRYSTAL OF ZIRCONIUM-DXYGEN S	N63-22992 YSTEM		OXYGEN SPECTRUM LOW TEMPERATURE ULTRAVIOLET ABSORPTION SPECTRA OF
ENERGY BAND CALCULATIONS FOR		EN	OXYGEN IN LIQUID AND SOLID MEDIA - ARGON AND NITROGEN NBS-7829 N63-14224 09-07
CRYSTALS OBTAINING ELECTRONIC WAVE FUNI CHANGING DXYGEN-HYDROGEN BOND		24-25 DY OF 24-25	DXYGEN SUBFLUDRIDE CHEMISTRY OF DXYGEN SUBFLUDRIDES, REACTION WITH PERIODIC GROUP V FLUORIDES AND CHLORINE RNO-5009-Q3 N63-13982 09-07
GASES AND SOLIDS AS CATALYSTS RECOMBINATION AEDC-TDR-63-239	FOR OXYGEN AT	OH 24-23	OXYGEN SYSTEM LIQUID-GAS CONTACTOR FOR PHOTOSYNTHETIC GAS EXCHANGERS
HYDROGEN-DXYGEN PROPULSION SYM	STEMS TECHNOLO N63-23749		AMRL-TDR-62-101 M63-10610 02-16 SOLAR ILLUMINATED PHOTOSYNTHETIC GAS EXCHANGER - OXYGEN AND CARBON DIOXIDE AMALYSES - ALGAE DENSITY
OXYGEN BIFLUDRIDE ADVANCED HIGH ENERGY SPACE ST OXYGEN BIFLUORIDE, DIBORANE	SETULAL DURAL		AND TEMPERATURE M63-11469 03-16 CONTROLLING FACTORS IN CHOICE OF METERED DXYGEN
OXYGEN DIFLUORIDE-DIBORANE PR		USE IN	FLOW AND RESERVOIR CAPACITY IN PRESSURE ECONOMIZER SYSTEMS FPRC/MEMO-176 N63-11772 04-16
SPACE PROPULSION SYSTEMS - PE STORABILITY ANALYSIS AIAA PAPER-63-238	N63-18342	17-26	CLOSED ECOLOGICAL LIFE SUPPORT UNIT - SPACE CABIN MATER, DXYGEN, AND FOOD SUPPLY UCRL-10589 N63-13073 07-16
OXYGEN COMPOUND CF OXIDE INORGANIC CHEMISTRY OF OXYGEN RMD-5009-Q2		05-07	UTILIZATION OF LUNAR SURFACE RESOURCES - LUNAR PROGRAMS, HYDROPONICS, WATER AND DXYGEN SUPPLIES N63-14984 11-29
CHEMISTRY OF OXYGEN-FLUORINE	COMPOUNDS - SY	NTHESIS	LUNAR SOIL AS SOURCE OF OXYGEN N63-14989 11-29
ARF-3227-1 CHEMISTRY OF OXYFLUORIDES AS	N63-12878	07-07	OXYGEN SUPPLY FROM SPACE MINERALS FOR PERSONNEL SUPPORT - 12-16
FLUORINATING AGENTS ARF-3227-2		07-07	OXYGEN SUPPLY FROM SPACE MINERALS - KINETICS AND

PA

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THERMODYNAMICS OF STONY METEORITE REDUCTION BY HYDROGEN N63-15271 12-0	ELECTRICAL PROPERTIES OF GALLIUM P-N JUNCTIONS 07 AFCRL-63-20/B/ N63-12677 06-09
CARBON DIOXIDE REMOVAL AND OXYGEN GENERATION BY	SOLID STATE IONIZATION P-N JUNCTION DETECTORS
SULFATE CYCLE - ELECTROCHEMISTRY NRL-5714 N63-16260 13-0	N63-13468 08-25
OXYMALIDE THERMODYNAMICS OF SEVERAL LIGHT METAL OXIDES,	CRYSTAL LAMPS — LIGHT EMISSION FROM MINORITY CARRIERS INJECTED AT P-N JUNCTION IN GALLIUM PHOSPHIDE N63-14416 10-25
HALIDES AND OXYHALIDES OR-3530-2 N63-11573 04-0	
THERMODYNAMICS OF LIGHT METAL OXIDES, HALIDES AND OXYMALIDES N63-16584 14-2	
THERMODYNAMIC PROPERTIES OF LIGHT METAL OXIDES, HALIDES & OXYMALIDES N63-18886 18-0	MICROELECTRONICS R&D AT NRL - TUNNEL DIODE FABRICATION, THIN FILMS, P-N JUNCTIONS, AND
OZONE	SEMICONDUCTOR DEVICE CONCEPTS - PREPARATION AND
CF OXYGEN CHEMISTRY OF VENUS ATMOSPHERE - CARBON DIOXIDE, DECOMPOSITION RESISTANCE, ABSORPTION, MICROWAVE EMISSION, OZONE, AND DIRECT RECOMBINATION	PROPERTIES OF GALLIUM ARSENIDE PHOSPHIDE P-N JUNCTION LASERS AFCRL-63-120/8/ N63-18911 18-25
N63-13753 08-2	RESPONSE OF P-N-P-N TRANSISTOR SWITCH TO PULSED NUCLEAR RADIATION - RADIATION EFFECT
ATMOSPHERIC OZONE VARIATIONS AND ADVECTIONS IN NORTHERN NORWAY N63-14543 10-1	N63-20233 20-09
OZONOSPHERE AND ATOMOSPHERIC OZONE - REVIEW	NETWORK PROPERTIES OF SEMICONDUCTOR P-N JUNCTION CIRCUITS
SAD-79 N63-15242 11-2	
VERTICAL OZONE DISTRIBUTION - SYNOPTIC MEASUREMENT - WEATHER CONDITIONS AFCRL-63-467 N63-16133 13-2	METEOROLOGY OF TROPICAL PACIFIC VIEWED FROM ENIMETOK ATOLL WEATHER STATION
VERTICAL OZONE DISTRIBUTION AT AROSA, SMITZERLAND AFCRL-63-659 N63-17597 16-1	
AFCRL-63-659 N63-17597 16-1 LAHINAR DETONATION WAVE STRUCTURE IN OZONE FOR	IONOSPHERIC STRUCTURE ABOVE FORT CHURCHILL, CANADA FROM FARADAY ROTATION MEASUREMENTS
THREE MODELS - COUPLED WAVE, VON NEUMAN-DORING- ZELDOVICH MODEL, AND DECOUPLED WAVE	N63-19687 19-12
N63-18543 17-1	PACIFIC OCEAN ANALYSES OF PACIFIC STORMS BASED ON CONTINUOUS
ATOMIC RECOMBINATIONS INVOLVING NITROGEN ATOMS, HYDROGEN ATOMS AND OZONE - EMISSION SPECTRUM - ABSORPTION STUDIES N63-18564 17-0	RADAR RECORDS AND SHORT-INTERVAL SERIAL ASCENTS - VOL V, JUNE 5 TO 7, 1961 AFCRL-62-469 N63-10212 01-21
OZONE THICKNESS AND PHENOMENA IN UPPER TROPOSPHER	
RS1C-24 N63-19393 18-1	
ATMOSPHERIC OZONE MEASUREMENTS FROM POLAR ORBITING SATELLITE TDR-169/3260-50/TM-3 N63-20307 20-1	TIROS SATELLITE PHOTOGRAPHIC TRACKING OF PACIFIC OCEAN TROPICAL CYCLONES
LIVING GRASSHOPPER NEUROBLASTS EXPOSED TO DZONE -	AFCRL-63-493 N63-19839 19-21
MITOTIC DELAY SAM-TDR-63-39 N63-22981 23-1	
ISOTOPIC EFFECT IN ELECTROSYNTHESIS OF OZONE FTD-TT-62-1535-16264 N63-23379 24-1	ADVANCED ELECTRONIC PACKAGING TECHNIQUES AMC-RG-TR-62-4 N63-10217 01-09
FTD-TT-62-1535-16264 N63-23379 24-1 DZONE FLUDRIDE	TRANSPARENT SKIN AND BLISTER PACKAGING - LAMINATES RIA-62-3600 N63-13118 07-17
HIGH ENERGY LIQUID PROPULSION SYSTEMS - PART 11, OZONE FLUORIDE N63-13082 07-2	
OZONIDE	PACKAGING SA-TR20-2313 N63-13172 07-17
CF GXYGEN COMPOUND	PACKAGING INFLATABLE STRUCTURES - ISOMETRIC
OZONOSPHERE CF ATMOSPHERE	MAPPING OF STRAIN-FREE SURFACE DEFORMATIONS FOR FLAT ANNULAR DISK PACKAGE
OZONOSPHERE CHANGES BY ROCKET EXHAUST GASES - OZONE RELAXATION TIMES AND OPTICAL PROPERTIES GCA-TR-62-14-G N63-14038 09-1	NASA-TN-D-1918 N63-15393 12-34
OZONOSPHERE AND ATONOSPHERIC OZONE - REVIEW	2 MODULAR PACKAGING OF EQUIPMENT - ANNOTATED BIBLIOGRAPHY SB-62-25 N63-17087 15-17
SAD-79 H63-15242 11-2	
ATMOSPHERIC MODEL OF NONTROPICAL LATITUDES - NULL LAYER, OZONE LAYER, AND WAGNER-LINKE LAYER M63-18678 17-2	ELECTRONIC PACKAGING MATERIALS UNDER HIGH VACUUM AND TEMPERATURE RANGE OF MINUS 40 TO 300-DEG F
P. David and Market	MARINER SPACECRAFT PACKAGING - SUBASSEMBLY, CABLE
P-N JUNCTION SOLAR CELL RESISTANT TO RADIATION DAMAGE - SILICO	OF ASSEMBLIES
P-N JUNCTION ARS PAPER-2567-62 N63-10273 01-0	
GENERATION OF COHERENT VISIBLE RADIATION AND	FOR ELECTRONIC PACKAGING NASA-CR-51587 N63-23042 24-09

A

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PA

IN	A THE STATE OF THE	OR THE STATE OF TH	ATL-0-811	N63-12288 05-15
RELATIONSHIPS BETWEEN HUMAN AB PAIN & PERSONALITY, & SENSORY NASA-TN-D-2113	N63-20892	21-17	LOCALIZED DIE FORGING OF RIBE ALUNINUM ALLOY PANELS AID-S-63-19	15/20月二世孫七四聖紀月 建来源阿洛仁
INT F FILLER PAINTS AND SOLAR REFLECTORS AS SURFACES FOR SPACECRAFT JPL-TR-32-340		ONTROL 08-13	NUMERICAL INTEGRATION PROCESS AERODYNAMIC FORCES AND USE OF COMPUTE FLUTTER BOUNDARIES IAS PAPER-63-22	TO DETERMINE AIR FORCES TO N69-12887 07-33
FEASIBILITY OF ONE-COAT PAINT CCL-138	SYSTEM N63-15371	12-07	STRUCTURAL DESIGN OF SANDWICH RESONANCE FATIGUE LIFE BY DAP ASD-TDR-62-1098	PANELS FOR INCREASED IPING BENDING WAVES M63-13491 08-34
RESIN MODIFIED TWO PACKAGE WAS AND COATINGS CCL-143	H PRIMERS - PA N63-16524	14-17	RANDOM EXCITATION OF STEEL PA FLUCTUATIONS, GRAZING INCIDES WAYES AND NOISE FROM AIR JET	MEL, BOUNDARY LAYER
TEST RANGE EVALUATION OF AIRCR	AFT PAINT PATT N63-16567	14-15	AASU-231	N63-13495 08-33
EFFECT OF TANK-TYPE PAINT STRI HATERIALS - REMOVAL OF EPOXY P A074		22-17	POSTBUCKLING EFFECTS ON FLUT SUPPORTED RECTANGULAR PANELS BY VON KARMAN THEORY NASA-TN-D-1615	AT SUPERSONIC SPEEDS
HEMISPHERICAL EMITTANCE OF BLA BLACKS, & ANODIZED ALUMINUM USNRDL-TR-663	CK PAINTS, HET	AL 23-23	WATER LANDINGS OF WINGED REEL HAVING OUTBOARD FOLDING WING	PANELS - MODELS USED
HYPERSONIC HEAT TRANSHISSION T CONFIGURATIONS WITH HEAT-SENSI ASD-TDR-63-530	O COMPLEX AIRC	24305	ACOUSTIC RADIATION EFFICIENC CONSTRUCTION BOARDS AND CONCI	Y OF GYPSUN
LLADIUM HYDROGEN DIFFUSION THROUGH PAL ATL-D-786	LADIUM		AEROELASTICITY - FLUTTER OF SURFACES, ALL-HOVABLE TAIL SEQUATIONS, STATIC DIVERGENCE	WING PANELS, CONTROL URFACES - MOTION
ELECTROCHEMISTRY OF PALLADIUM ELECTRODES AFCRL-62-1051	N63-13226	07-07	ROOM-TEMPERATURE SHEAR AND CO STIFFENED PANELS WITH INTEGRA	OMPRESSION TESTS OF
JOINING OF REFRACTORY METALS, NICKEL OR PALLADIUM ACTIVATORS WAL-TR-460.54/1-2	TUNGSTEN USING	09-17	CIRCUITS NASA-TH-D-1499 AERODYNAMIC CHARACTERISTICS CONFIGURATION WITH SPOILER-SI	N63-14271 10-33 OF VARIABLE-WING-SWEEP
CHARACTERISTICS OF TRANSITION SOLUTION - CHEMICAL ANALYSIS OF AND RUTHENIUM	F RHODIUM, PAI	LADIUM	COMFIGURATION WITH SPOILER-S SYSTEM & SWEPT BACK OUTER WII NASA-TM-X-273	NG PANELS
AFCRL-63-456		14-07	BUCKLING OF STIFFENED STRUCT	SECTION STREET, SINK
HIGH TEMPERATURE EQUILIBRIUM VINORGANIC MATERIALS USING MICE ELECTRON BOMBARDMENT HEATING -R63SD6	OBALANCE AND		SB-62-37 CONFIRMATION OF THERMOELASTI SANDWICH PANEL DEFLECTION	C EQUATIONS FOR
HYDROGEN DIFFUSION THROUGH PAR SILVER MEMBRANES FOR FUEL CELL		ADTUH- 24-09	ASO-TOR-63-559 ABLATIVE PROPERTIES OF MOLDE PANELS - PRESSURE EFFECT	N63-19866 19-33 D FIBER REINFORCED N63-21393 22-19
LMER DIAGRAM PLASMA OSCILLATIONS AND PARTIC ELECTRON STREAM - PALMER DIAGR	AMS		HEATING AND FREEZING EFFECTS CORE-TO-SKIN BOND FAILURE AOT7	NA3-21AA1 22-17
TER SER. 60, ISSUE 458	N63-12734	06-24	ABRASION PROTECTION OF BLACK PANELS A079	ANODIZED ETCHED
	INGATE WENTER	SHIT SHIT	SHEAR & TENSILE STRESSES IN	CORNER NEAR CUT-OUTS
F SHEET F STRUCTURAL MATERIAL RIBBED PANEL RESPONSE TO ACOUS	TIC EXCITATION	71470	COMPARED WITH PANELS OF RIVE BONDED CONSTRUCTION ARL/SM 291	
TRANSDUCER SYSTEM FOR MEASURING OF WING PANEL AND LEADING EDGE	N63-10949 IG SKIN TEMPERI OF DYNA-SOAR	02-33 ATURE	SYSTEMS FOR AUTOMATICALLY OR SOLAR CELL FLAT-PANEL ARRAYS GER-11104	TO SUN 24-15
VEHICLE DURING REENTRY ATL-D-861	N63-11421	03-15	ELECTRICAL EQUIVALENT CIRCUI ELECTROLUMINESCENT PANELS	TOP NATURE OFFICE
OPTIMUM DESIGN OF SANDWICH PAN LOADS	H63-11654	04-34	PANEL FLUTTER	N63-23740 24-09
AERODYNAMIC CHARACTERISTICS OF SHAPED PLATES AND OSCILLATING SUPERSONIC FLOW	FLAT PANELS, RECTANGULAR W	WEDGE-	CF AEROELASTICITY SUPERSONIC EFFECTS OF THERMA ON FLUTTER OF FLAT PANELS	L STRESS AND BUCKLING
NLL-TR-S.527	N63-11832	04-03	HASA-TH-D-1485	M63-10205 01-33

TEMPERATURE TRANSDUCER FOR IN-FLIGHT MONITORING OF SKIN PANEL SURFACE YEMPERATURES - EFFECTS OF INSULATION AND VIBRATION ON ACCURACY

FLUTTER PANEL TESTS IN TRANSONIC AND SUPERSONIC WIND TURNELS NA-62-1110 N63-10466 01-0

N63-10466 01-03

PAC

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PAMEL FLUTTER RESULTS FOR FLAT AND CUNVED ITTATURE SXIP AMBLE FLUTTER RESULTS FOR FLAT AND CUNVED ITTATURE SXIP AMBLE FLUTTER RESULTS OF SANDHICH-TYPE FLAT PAMELS AT SWINGHOLD SYLD SYLD SYLD SYLD SYLD SYLD SYLD SY		
PAREE FLUTTER RESULTS FOR FLAT AND CURVED TITATION SKIP PARES, AT SUPPESSING SPEED SHOULD SPEED SHOULD SPEED SHOULD SPEED SHOW ICH TYPE FLAT PANELS AT SUPPESSING SPEED SHOW ICH TYPE FLAT PANELS AND INFO THE SET OF STATE O		MOVING-COCKPIT-SIMULATOR STUDY OF PILOT
PARTAR CHOMOTE CAPADRA PROCESSING OF PARTAR CHOROSTER AND APPESORES OF ASSURED PARACHUTE CAPADRA TO STREET, TO ALL STREET, AND AREA CHOROSTER OF ASSURED TO STREET, AND ASSURED TO STREET,	SKIN PANELS AT SUPERSONIC SPEED	NASA-TN-D-1797 N63-15562 12-10
FLUTTER TESTS OF SAMOUTCH-TYPE FLAT PANELS AT SUPERSORIC SPEEDS IN ASA-HERO-10-17-84 IN ASA-HERO-10-17-94 IN ASA-H	NASA-TN-D-1600 N63-12004 05-33	PROPERTIES OF A DEFOCUSED RADAR ANTENNA
ARCELASTICITY FAUTTER OF WINE PARELS, CONTROL SUPPRICES, ALL-HOWARD EAL SUPPRICES, ALL-HOWARD EAL SUPPRICES, CONTROL REVERSAL NO. 19113 09-010 MING FLUTTER - AEROGLASTICITY N63-16116 09-33 SURVEY OF AEROTHER/OCLASTICITY N63-16116 09-33 SURVEY OF AEROTHER/OCLASTICITY RESULTS FOR FLAT PLATES, VIBRATION AND PAREL FLUTTER SUMMANY LAYER FLOW ANALYSIS FOR FLAT PLATES AND CIRCULAR CYLINGRICAL SHELLS IAF PAREA-8-28 PANEL PLUTTER - BOUNDARY LAYER FLOW ANALYSIS FOR FLAT PLATES AND CIRCULAR CYLINGRICAL SHELLS IAF PAREA-8-28 IN-FLIGHT PAREL FLUTTER AND WIND INHER TEST DATA AC-ARTC-92 PARELS - LENGTHY/MIDTH AND STRESS RATIOS TO PREVENT MAS-1-80-1-948 OUS THROMESSES AS 7-2055 21-33 FLUTTER OF THIN, PLANE, ELLIPTIC PARELS CAM-1-193 PANDRARIC SCANNING IGF TOMOSPHERIC PANDRARIC STATIOS TO PREVENT MAS-1-80-1-9440US THROMESSES AS 7-2055 21-33 PARCRAFIC SCANNING IGF TOMOSPHERIC PANDRARIC STATIOS TO PREVENT MAS-1-80-1-9440US THROMESSES AS 7-2055 21-33 PARCRAFIC SCANNING IGF TOMOSPHERIC PANDRARIC STATIOS TO PREVENT MAS-1-80-1-9440US THROMESSES AS 7-2055 21-33 PARCRAFIC SCANNING IGF TOMOSPHERIC PANDRARIC STATIOS TO PREVENT MAS-1-80-1-9440US THROMESSES AS 7-21045 22-12 PARTA PROCESSING OR RESULTS OF IONOSPHERIC PANDRARIC STATIOS TO PARACHUTE STORY METEORITES MAS-1-2050 MAS-1-2050 PANDRARIC STATIOS TO PARACHUTE STORY METEORITES MAS-1-2050 MAS-1-2050 PARACHUTE CLUSTERING - SACCEPTICIENT OF PARACHUTE HOUSE SURFACE PANDRARIC STATIOS TO PARACHUTE MESSAGE AND PARACHUTE CLUSTERING - SACCEPTIC THE OPEN PARACHUTE MESSAGE AND PARACHUTE CLUSTERING - SACCEPTIC THE OPEN PARACHUTE MESSAGE AND PARACHUTE ANDRAR MESSAGE AND PARACHUTE MESSAGE AND PARACHUTE ANDRAR MESSAGE AND PARACHUTE MESSAGE AND PARACHUTE ANDRAR MESSAGE AND PARACHUTE CANDRAR MESSAGE AND PARACHUTE ANDRAR MESSAGE A	SUPERSONIC SPEEDS	FTD-TT-62-1139/162 N63-10342 01-08
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SURVEY OF AEROTHERROBLASTICITY — REENTRY VEHICLES, X-15 AIRCRAFT, STRUCTURAL DYNAMICS, THERMAL STRUCTURE SHIRATION AND PABER PLUTTER AND AND AND APPROXIMATE CALCULATION OF PARAPRAPA 11-02 PANEL FLUTTER — ROUNDARY LAYER FLOW ANALYSIS FOR FLAT PLASES AND CIRCURA CYLINGRIC SHELLS IAS PAPER-03-26 IN-FLIGHT PANEL FLUTTER AND WIND TUMBEL TEST DATA ATC-ARTC-32 IN-FLIGHT PANEL FLUTTER AND WIND TUMBEL TEST DATA ATC-ARTC-32 IN-FLIGHT PANEL FLUTTER AND WIND TUMBEL TEST DATA ACC-ARTC-32 IN-FLIGHT PANEL FLUTTER IN M3-20379 20-35 EXPERIENCE AND AND STRESS ART MACH 30-1055 21-33 IN-PARELS — LENGTH/MIDT HAND STRESS ART MACH 30-1055 21-33 IN-ARCH TEST OF VARIOUS KINDS AND TEXTURES POPEL-199 IN-ARCHITE TEST OF VARIOUS TRICKNESSES AT MACH 30-1055 21-33 IN-ARCHITE FABRICS OF VARIOUS KINDS AND TEXTURES POPEL-203 PRACHUTE TEST IN M3-16301 13-04 IN-ARCHITE STORY MACH 30-1055 21-33 IN-ARCHITE FABRICS OF VARIOUS KINDS AND TEXTURES POPEL-203 PRACHUTE TEST IN M3-16301 13-04 IN-ARCHITE STORY MACH 30-1055 21-33 IN-ARCHITE STORY MACH 30-1055 21-35 IN-ARCHITE STORY MACH 30-1055 31-35 IN-ARCHITE STORY MACH 30-1055 IN-ARCHITE STORY MACH 30-10		
STRESS, VIBRATION AND PANEL FLUTTER M65-14895 11-02 PANEL FLUTTER - BOUNDARY LAYER FLUM ANALYSIS FOR FLAT PLATES AND CIRCULAR CYLINDRICAL SHELLS 1AS PAPER-69-26 M65-17183 15-31 IN-FLIGHT PANEL FLUTTER AND WIND TUMBEL TEST DATA ATC-ARTC-32 EXPERIFURIN AND THEORY OF SUPERSOIN FUTURE IN PAREL S.L. LENGTH/INTOTH AND STRESS HAT 10S TO PREVENT FLUTTER OF VARIOUS THICKNESSES AT ARCH 3 PANDRAS TECTION RESULT OF THIN, PLANE, FLUTTER PARELS GAM-N-136 FLUTTER OF VARIOUS THICKNESSES AT ARCH 3 PANDRAS TECTION OF THIN, PLANE, FLUTTER PARELS GAM-N-136 FLUTTER OF THIN, PLANE, FLUTTER AND WIND TUMBEL TEST DATA AND RAPOCESSING OF RESULTS OF IONOSPHERIC PANDRAMIC STANLING GAM-1201 DATA PROCESSING OF RESULTS OF IONOSPHERIC PANDRAMIC VERTICAL SOUNDING — GEOMAGNETISM AND RAPOCES AND PARELS GENESIS OF LIGHT-DARK STRUCTURE IN PANTAR AND KAPOCTA STONE RETORNITES AND-108-2-2302 PAPER ITEGRAT DESIGN PARAMETER STICS OF PARELS M63-21291 22-12 M63-1459 PAREA HIGH ALTITUDE PARACHUTE TEST FACILITY OF DESCRIPTION & OPERATION AND LANGUITE STONY METEORITES AND-108-2-2302 WIND TUMBEL STUDY OF PARACHUTE CAPSULE MIND TUMBEL TEST FACILITY OF DESCRIPTION & OPERATION M63-21291 PAREA HOTOGRAM STRUCTURE IN PANTAR AND KAPOCTA STONE RETORNITES AND-108-2-2302 PAPER ITEGRAT DESIGN PARAMETER STORY OF SUBJECT OF ANALYSIS DELICATION THE HOLD THAN MOBILITY AND CEARLING OF PARACHUTE STORY AND LANDING CREATION OF MOBILITY AND CEARLING OF PARACHUTE STRING OF PARACHUTE STRENG TO STATIC M63-21291 M63-1630 M63-1630	SURVEY OF AEROTHERMOELASTICITY - REENTRY VEHICLES,	TRAJECTORIES
PANEL FLUTTER DOUNDARY LAYER FLOW ANALYSIS FOR FLAT PLATES AND CITALOR O'VLINDARIC SHELLS IAS PAPER-65-26 CHILAR O'VLINDARIC SHELS IAS PAPER-65-26 CHILAR O'VLINDARIC SHELTS IAS PAPER CHILAR O'VAN CHILAR O'VLINDARIC SHELTS IA CHILAR O'VAN CHILAR O'VLINDARIC SHELTS IA CHILAR O'VAN	STRESS, VIBRATION AND PANEL FLUTTER	AIRCRAFT DESIGN PARAMETERS
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ATC-ARTC-32 EXPERIMENT AND THOOKY OF SUBERSONIC FLUTTER IN PANELS: L'EMETHANDIAN AND STRESS RATIOS TO PREVENT FLUTTER OF VARIOUS THICKNESSES AT MACH 3 PARSA-17-0-1948 MASA-17-0-1948 PLUTTER OF VARIOUS THICKNESSES AT MACH 3 PLUTTER OF THIN, PLANE, ELLIPTIC PANELS NO-221211 21-33 FLUTTER OF THIN, PLANE, ELLIPTIC PANELS NO-221212 21-33 PARDIARIC SCANNING NO-221211 21-33 PARDIARIC SCANNING OF RESULTS OF LONGSPHERIC NO-22121 22-12 DATA PROCESSING OF RESULTS OF LONGSPHERIC NA-2-1942 22-12 PARTAR CHONDITE GENERAL SUMMOING - GEOMAGNETISM NO-21941 22-12 PARTAR CHONDITE GENERAL SUMMOING - GEOMAGNETISM NO-21942 22-12 PARTAR CHONDITE GENERAL SUMMOING - G	IAS PAPER-63-26 N63-17183 15-33	FILLING TIME, PEAK OPENING FORCE FOR PARACHUTE
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FLUTTER OF VARIOUS THICKNESSES AT MACH 3 MASA-THO-1948 MOS-21201 21-33 FLUTTER OF THIN, PLANE, ELLIPTIC PAMELS MOS-21211 21-33 FLUTTER OF THIN, PLANE, ELLIPTIC PAMELS MOS-21211 21-33 FLUTTER OF THIN, PLANE, ELLIPTIC PAMELS MOS-21211 21-33 FARACHUTE STABILITY OF PERSONNEL GUIDE SURFACE PARACHUTE STABILITY OF PERSONNEL GUIDE SURFACE PARACHUTE STABILITY OF PERSONNEL GUIDE SURFACE PARACHUTE STABILITY OF PERSONNEL GUIDE SURFACE DATA PROCESSING OF THIN, PLANE STATION MOS-21211 22-12 DATA PROCESSING OF RESULTS OF IONOSPHERIC PANDRAHIC VERTICAL SOUNDING - GEOMAGNETISM MOS-21212 22-12 PANTAR CHOMOSTE GENESIS OF LIGHT-DARK STRUCTURE IN PANTAR AND KAPOETA STONE NETFORTIES MOS-13501 08-07 LIGHT-DARK STRUCTURE OF PANTAR CHOMORITE AND KAPOETA ACHOMORITE STONY METEORITES MOS-23020 24-29		DFL-159 N63-14531 10-03
PANDRABIC SCANNING FOR INTERCOLOR—13-36 PANDRABIC VERTICAL SOUNDING—GEONAGNETISM M63-21942 22-12 M63-21942 M63-21942 22-12 M63-21942 M63-21942 22-12 M1D TUNINEL STUDY OF PARACHUTE CLUSTERING—STATIC CHARACTERISTICS M63-21942 M1D TUNINEL STUDY OF PARACHUTE CLUSTERING—STATIC CHARACTERISTICS M1D TUNINEL STUDY OF PARACHUTE INTO MOLITIC CONFORT ASSOCIATION —STATIC CHARACTERISTICS M1D TUNINEL STUDY OF PARACHUTE INTO MOLITIC CONFORT ASSOCIATION —SASTOLOUR CONFORT ASSOCIATION —SASTOLOUR ASSOCIATION —PARACHUTE SAND AVENUS M63-23326 24-02 VAPOR PARSSURE OF PARA HYDROGEN BETWEEN ITS BOILING POODER AS OF PARA HYDROGEN BETWEEN ITS BOILING POODER ASSOCIATION —SASTOLOUR ASSOCIATION —PARACHUTE SAND AVEN	FLUTTER OF VARIOUS THICKNESSES AT MACH 3	PARACHUTES
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DATA PROCESSING OF RESULTS OF IONOSPHERIC PANORAMIC VERTICAL SOUNDING - GEOMAGNETISM 163-21942 22-12 MIND TUNNEL STUDY OF PARACHUTE CLUSTERING - STATIC STABILITY & DRAG COEFFICIENT OF MULTIPLE CANDPIES ASD-TOR-63-159 M63-18332 17-03 CECELVALOSE ILOH-DARK STRUCTURE IN PANTAR AND KAPOETA STONE METEORITES M63-13601 08-07 CHARACTERISTICS M63-2018 21-03 CECELVALOSE INCENTIAL POLYMERIZATION OF TWO MONOMERS IN THREE TYPES OF PAPER RIA-62-3289 M63-11447 03-19 PARACHUTE APPORTUNE FOR PAPER ATTEMPERATURE FROM 15 TO 90-DEG K AND PRESSURES TO 340 ATM MSS-R-270 M63-16885 14-23 SPECIFIC HEAT OF SATURATED LIQUID PARA-HYDROGEN FROM 15 TO 32-DEG K AS MEASURED BY A CALORIMETER CRYSTOSTAT MSS-R-269 MASS-CR-30159 SOURCES TO 13 DEG K AS MEASURED BY A CALORIMETER RELATIONS OF FAULD PARA HYDROGEN FROM 15 TO 100-DEG K AND ITS CRITICAL POINT //33 DEG K/ CATORIOLES AND INSCRIPTION OF 16-FOOT PARABOLIC REFLECTOR MSS-23325 24-02 PARACHUTE SUSING AXISYMETRIC FLOW ANALYSIS - PARACHUTE AND HOT GAS BALLOON FOR SPACECRAFT LANDING ON MARS AND VENUS N63-23325 24-02 PARACHUTE SCHOOL OF THE REMODYNAMICS N63-16732 14-11 PARAGOLIC REFLECTOR MSS-273 15-11 PARABOLIC REFLECTOR MSS-273 15-11 PARACHUTE RELATIONS OF FAULD PARA HYDROGEN FROM 15 TO 100-DEG K AT PRESSURES TO 350 ATMOSPHERES - THERMODYNAMICS N63-16738 15-11 PARABOLIC REFLECTOR MSS-273 15-11 PARACHUTE AND HOT GAS BALLOON FOR SPACECRAFT PARACHUTE AND HOT GAS BALLOON FOR SPACEC	IGY IONOSPHERIC PANORAHIC STATION - GEOMAGNETISM	HIGH ALTITUDE PARACHUTE TESTING - SPACE CAPSULE
PANDRAMIC VERTICAL SOUNDING - GENHACHTISM MG3-21942 22-12 PANTAR CHONDITE GENESIS OF LIGHT-DARK STRUCTURE IN PANTAR AND KAPDETA STONE METEORITES MG3-13601 08-07 LIGHT-DARK STRUCTURE OF PANTAR CHONDRITE AND KAPDETA ACHOMORITE STONY METEORITES MG3-23620 24-29 PAPER CF CELLULOSE LITERNAL POLYMERIZATION OF TWO MONOMERS IN THREE TYPES OF PAPER RIA-62-3289 M63-11447 03-19 PARA HYORGGEN DIGITAL PROGRAMS FOR PARA-HYOROGEN PROPERTIES AT TEMPERATURES FROM 15 TO 90-DEG K AND PRESSURES TO 340 ATM MS-R-270 M63-16685 14-23 SPECIFIC HEAT OF SATURATED LIQUID PARA-HYDROGEN FROM 15 TO 32-DEG K AS MEASURED BY A CALORIMETER NBS-R-269 M63-16687 14-23 VAPOR PRESSURE OF PARA HYDROGEN BETWEEN ITS BOILING POINT /20 DEG K / AND ITS CRITICAL POINT //33 DEG K / AND INSTALLATION OF 16-FOOT PARABOLIC REFLECTOR DESIGN, FABRICATION AND INSTALLATION OF 16-FOOT PARABOLIC REFLECTOR DESIGN, FABRICATION AND INSTALLATION OF 16-FOOT PARABOLIC REFLECTOR ANTENNA MIND TUNNEL STUDY OF PARACHUTE CLUSTERING - STATIC STABLITYS GRAC GRACTER TO AND SADLED AND THE CRANGET SADLED AND THE CRANGET SADLED AND THE CHARACHUTE INVESTIGATIONS - AERODYMAN CONTACT VELOCITY OF AIR DELIVERED CARGO - PARACHUTE SYSTEM R-1617 M63-21802 PROPELLANT ACTUATED DEVICE /PAD/ TO REDUCE GROUND CONTACT VELOCITY OF AIR DELIVERED CARGO - PARACHUTE SYSTEM R-1617 M63-21920 CARTEIOGE, POWDER ACTUATED CULTER FOR REFING LINE CULTER OF HEAVY DUTY PARACHUTE ARONARE FA-R-1685 SUPERSONIC SPEED PARACHUTE DECLETATIONS FOR HIGH ALTITUDE BALLOON PAYLOADS SUPERSONIC SPEED PARACHUTE DECLETATIONS FOR MG3-22317 AND TUNNEL STUDY OF PARACHUTE INVESTIGATIONS ABOUT TO FAIL TO THE MOST AND THE MOST		
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CF CELLULOSE INTERNAL POLYMERIZATION OF TWO MONOMERS IN THREE INTERNAL PROGRAMS FOR PARA—HYDROGEN POPERTIES AMS—22399 PARA HYDROGEN INTERNAL PROGRAMS FOR PARA—HYDROGEN POPERTIES ANS—1262 SPECIFIC HEAT AT CONSTANT VOLUME OF PARA—HYDROGEN AT TEMPERATURES FROM 15 TO 90-DEG K AND PRESSURES TO 340 ATM NBS—R—270 M63—16685 VAPOR PRESSURE OF PARA HYDROGEN BETWEEN ITS BOILING POINT /20 DEG K /A MD ITS CRITICAL POINT //33 DEG K /— CRYOGENIC THERMODYNAMICS NG3—17158 PARACHUTE SYSTEM R—1671 CARTRIDGE, POMDER ACTUATED CUTTER FOR REEFING LINE CUTTER OF HEAVY DUTY PARACHUTE DECELERATORS NG3—22815 23—17 PARACHUTE DESCENT TIMES AND IMPACT LOCATIONS FOR HIGH ALTITUDE BALLOON PAYLOADS AFC—16—3885 NG3—223317 24—03 INFLATION STABILITY TESTS ON SUPERSONIC POROUS NG3—23312 PARACHUTE SYSTEM R—1671 R—	GENESIS OF LIGHT-DARK STRUCTURE IN PANTAR	THEORETICAL PARACHUTE INVESTIGATIONS - AERODYNAMIC
PAPER CF CELLULOSE INTERNAL POLYMERIZATION OF TWO MONOMERS IN THREE TYPES OF PAPER RIA-62-3289 M63-11447 PARA HYDROGEN DIGITAL PROGRAMS FOR PARA-HYDROGEN PROPERTIES LAMS-2762 SPECIFIC HEAT AT CONSTANT VOLUME OF PARA-HYDROGEN AT TEMPERATURES FROM 15 TO 90-DEG K AND PRESSURES TO 340 ATM NBS-R-270 M63-16685 M63-16685 M63-16685 M63-16687 M83-R-289 VAPOR PRESSURE OF PARA HYDROGEN BETWEEN ITS BOILING POINT /20 DEG K/ AND ITS CRITICAL POINT /33 DEG K/ - CRYOGENIC THERMODYNAMICS RASA-CR-90159 M83-16732 PARABOLIC REFLECTOR DESIGN, FABRICATION AND INSTALLATION OF 16-FOOT PARABOLIC REFLECTOR DESIGN, FABRICATION AND INSTALLATION OF 16-FOOT PARABOLIC REFLECTOR CARTRIDGE, PONDER ACTUATED CUTTER FOR REEFING LINE CUTTER OF HEAVY DUTY PARACHUTE HARDWARE CUTTER OF HEAVY DUTY PARACHUTE HARDWARE CUTTER OF HEAVY DUTY PARACHUTE HARDWARE FA-R-1685 N63-22815 23-17 PARACHUTE DESCENT TIMES AND INSTALLATION OF 16-FOOT PARABOLIC REFLECTOR N63-10840 CARTRIDGE, PONDER ACTUATED CUTTER FOR REEFING LINE CUTTER OF HEAVY DUTY PARACHUTE HARDWARE FA-R-1685 N63-22815 23-17 PARACHUTE DESCENT TIMES AND INSTALLATION OF TOPALOTO N63-2685 N63-223917 PARACHUTE DESCENT TIMES AND INSTALLATION OF 16-FOOT PARABOLIC REFLECTOR ANTENNA CARTRIDGE, PONDER ACTUATED CUTTER FOR REEFING LINE CUTTER OF HEAVY DUTY PARACHUTE HARDWARE FA-R-1685 N63-22815 23-17 PARACHUTE BALLOON PAYLOADS AFCRL-63-885 N63-223917 PARACHUTE BALLOON PAYLOADS AFCRL-63-885 N63-23317 24-03 INFLATION STABILITY TESTS ON SUPERSONIC PROPUS N63-23318 24-02 PARACHUTE SUSING AXISYMMETRIC FLOW ANALYSIS - DECELERATORS N63-23318 PARACHUTE SUSING AXISYMMETRIC FLOW ANALYSIS - DECELERATORS N63-23318 24-02 PARACHUTE SUSING AXISYMMETRIC FLOW ANALYSIS - DECELERATORS N63-23318 PARACHUTE SUSING AXISYMMETRIC FLOW ANALYSIS - DECELERATORS N63-23316 PARACHUTE SUSING AXISYMMETRI	KAPOETA ACHONDRITE STONY METEORITES	CONTACT VELOCITY OF AIR DELIVERED CARGO -
INTERNAL POLYMERIZATION OF TWO MONOMERS IN THREE TYPES OF PAPER RIA-62-3289 N63-11447 03-19 PARA HYDROGEN DIGITAL PROGRAMS FOR PARA-HYDROGEN PROPERTIES LAMS-2762 SPECIFIC HEAT AT CONSTANT VOLUME OF PARA-HYDROGEN AT TEMPERATURES FROM 15 TO 90-DEG K AND PRESSURES TO 340 ATM NBS-R-270 SPECIFIC HEAT OF SATURATED LIQUID PARA-HYDROGEN FROM 15 TO 32-DEG K AS MEASURED BY A CALORIMETER CRYSTATI NBS-R-269 VAPOR PRESSURE OF PARA HYDROGEN BETWEEN ITS BOILLING POINT /20 DEG K /A MO ITS CRITICAL POINT //33 DEG K/ - CRYOGENIC THERMODYNAMICS NASA-CR-50159 PRESSURE-DENSITY-TEMPERATURE RELATIONS OF FLUID PARA HYDROGEN FROM 15 TO 100-DEG K AT PRESSURES TO 350 ATMOSPHERES - THERMODYNAMICS R-276 PARABOLIC REFLECTOR DESIGN, FABRICATION AND INSTALLATION OF 16-FODT PARABOLIC REFLECTOR ANTENNA CUTTER OF HEAVY DUTY PARACHUTE HARDWARE FA-R-1685 PARACHUTE DESCENT TIMES AND IMPACT LOCATIONS FOR HIGH ALTITUDE BALLOON PAYLOADS AFCRI-63-885 SUPERSONIC SPEED PARACHUTE DECELERATORS INFLATION STABILITY TESTS ON SUPERSONIC PROPOLUS INFLATION STABILITY TESTS ON SUPERSONIC PARACHUTE SUSING AXISYMMETRIC FLOW ANALYSIS - DECELERATORS N63-23318 24-02 PARACHUTE AND HOT GAS BALLOON FOR SPACECRAFT LANDING ON MARS AND VENUS N63-23325 24-02 PARACHUTE AND HOT GAS BALLOON FOR SPACECRAFT LANDING ON MARS AND VENUS N63-23325 24-02 PARACHUTE AND HOT GAS BALLOON FOR SPACECRAFT PARABOLIC REFLECTOR ANTENNA PARACHUTE AND HOT GAS BALLOON FOR SPACECRAFT PARABOLIC REFLECTOR ANTENNA		
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PARA HYDROGEN DIGITAL PROGRAMS FOR PARA-HYDROGEN PROPERTIES LAMS-2762 SPECIFIC HEAT AT CONSTANT VOLUME OF PARA-HYDROGEN AT TEMPERATURES FROM 15 TO 90-DEG K AND PRESSURES TO 340 ATM NBS-R-270 M63-16685 SPECIFIC HEAT OF SATURATED LIQUID PARA-HYDROGEN FROM 15 TO 32-DEG K AS MEASURED BY A CALORIMETER CAYOSTAT NBS-R-269 VAPOR PRESSURE OF PARA HYDROGEN BETWEEN ITS BOILING POINT /20 DEG K AND ITS CRITICAL POINT //33 DEG K / - CRYOGENIC THERMODYNAMICS NASA-CR-30159 PRESSURE-DENSITY-TEMPERATURE RELATIONS OF FLUID PARA HYDROGEN FROM 15 TO 100-DEG K AT PRESSURES TO 330 ATMOSPHERES - THERMODYNAMICS R-276 PARABOLIC REFLECTOR DESIGN, FABRICATION AND INSTALLATION OF 16-FOOT PARABOLIC REFLECTOR ANTENNA HIGH ALTITUDE BALLOON PAYLOADS AFCR-63-885 N63-22899 23-04 SUPERSONIC SPEED PARACHUTE DECELERATORS N63-22317 24-03 INFLATION STABILITY TESTS ON SUPERSONIC POROUS PARACHUTES USING AXISYMMETRIC FLOW ANALYSIS - DECELERATORS N63-22318 24-02 PARACHUTE AND HOT GAS BALLOON FOR SPACECRAFT APPLICATIONS N63-23325 24-06 PARACHUTE TECHNOLOGY - REQUIREMENTS AND APPLICATIONS N63-23326 PARACHUTE TECHNOLOGY - REQUIREMENTS AND N63-23326 SUPERSONIC SPEED PARACHUTE DECELERATORS N63-23317 24-03 RECOVERY SYSTEMS CONSIDERATION - PARACHUTES N63-23318 24-02 PARACHUTE AND HOT GAS BALLOON FOR SPACECRAFT PARACHUTE TECHNOLOGY - REQUIREMENTS AND N63-23326 PARACHUTE TECHNOLOGY - REQUIREMENTS AND N63-23326 PARACHUTE TECHNOLOGY - REQUIREMENTS AND N63-23344 24-02 PARACHUTE TECHNOLOGY - REQUIREMENTS AND N63-23326 PARACHUTE TECHNOLOGY - REQUIREMENTS AND N63-23344 24-03 PARACHUTE TECHNOLOGY - REQUIREMENTS AND N63-23326 PARACHUTE AND HOT GAS BALLOON FOR SPACECRAFT PARACHUTE SUSING AN	RIA-62-3289 N63-11447 03-19	PARACHUTE DESCENT TIMES AND IMPACT LOCATIONS FOR
SPECIFIC HEAT AT CONSTANT VOLUME OF PARA—HYDROGEN AT TEMPERATURES FROM 15 TO 90-DEG K AND PRESSURES TO 340 ATM NBS-R-270 M63-16685 14-23 SPECIFIC HEAT OF SATURATED LIQUID PARA—HYDROGEN FROM 15 TO 32-DEG K AS MEASURED BY A CALORIMETER CAYOSTAT NBS-R-269 N63-16687 14-23 VAPOR PRESSURE OF PARA HYDROGEN BETWEEN ITS BOILING POINT /20 DEG K / AND ITS CRITICAL POINT /33 DEG K / - CRYOGENIC THERMODYNAMICS NASA-CR-30159 N63-16732 14-11 PRESSURE-DENSITY-TEMPERATURE RELATIONS OF FLUID PARA HYDROGEN FROM 15 TO 100-DEG K AT PRESSURES TO 350 ATMOSPHERES - THERMODYNAMICS R-276 N63-17158 15-11 PARABOLIC REFLECTOR NG 1 INSTALLATION OF 16-FOOT PARABOLIC REFLECTOR AND INSTALLATION OF 16-FOOT PARABOLIC REFLECTOR AND INSTALLATION OF 16-FOOT PARABOLIC REFLECTOR ANTENNA	DIGITAL PROGRAMS FOR PARA-HYDROGEN PROPERTIES	HIGH ALTITUDE BALLOON PAYLOADS
TO 340 ATM NBS-R-270 NBS-R-2318 24-02 PARACHUTE AND HOT GAS BALLOON FOR SPACECRAFT LANDING ON RECOVERY AND LANDING SYSTEM - PARACHUTE TECHNOLOGY - REQUIREMENTS AND APPLICATIONS NBS-R-23325 NBS-R-23325 NBS-R-23325 NBS-R-23325 NBS-R-23325 NBS-R-23326	SPECIFIC HEAT AT CONSTANT VOLUME OF PARA-HYDROGEN	
SPECIFIC HEAT OF SATURATED LIQUID PARA-HYDROGEN FROM 15 TO 32-DEG K AS MEASURED BY A CALORIMETER CRYOSTAT NBS-R-269 VAPOR PRESSURE OF PARA HYDROGEN BETWEEN ITS BOILING POINT /20 DEG K/ AND ITS CRITICAL POINT //3 DEG K/ - CRYOGENIC THERMODYNAMICS NASA-CR-90159 PRESSURE-DENSITY-TEMPERATURE RELATIONS OF FLUID PARA HYDROGEN FROM 15 TO 100-DEG K AT PRESSURES TO 350 ATMOSPHERES - THERMODYNAMICS R-276 PARABOLIC REFLECTOR DESIGN, FABRICATION AND INSTALLATION OF 16-FODT PARABOLIC REFLECTOR ANTENNA DECLERATORS NASA-23318 24-02 PARAVULCOON RECOVERY AND LANDING SYSTEM - PARACHUTE AND HOT GAS BALLOON FOR SPACECRAFT PARACHUTE TECHNOLOGY - REQUIREMENTS AND APPLICATIONS N63-23324 24-02 PARACHUTE TECHNOLOGY - REQUIREMENTS AND APPLICATIONS N63-23325 24-06 PARACHUTE TECHNOLOGY - REQUIREMENTS AND APPLICATIONS N63-23326 24-02 PARACHUTE TECHNOLOGY - REQUIREMENTS AND APPLICATIONS N63-23324 24-03 PARACHUTE TECHNOLOGY - REQUIREMENTS AND APPLICATIONS N63-23325 24-06 PARACHUTE AND HOT GAS BALLOON FOR SPACECRAFT PARACHUTE AND HOT GAS BALLOON FOR SPACECRAFT	TO 340 ATM	PARACHUTES USING AXISYMMETRIC FLOW ANALYSIS -
CAYOSTAT NBS-R-269 N63-16687 14-23 PARACHUTE AND HOT GAS BALLOON FOR SPACECRAFT LANDING ON MARS AND VENUS N63-23324 24-03 VAPOR PRESSURE OF PARA HYDROGEN BETHEEN ITS BOILING POINT /20 QEG K/ AND ITS CRITICAL POINT /33 DEG K/ - CRYOGENIC THERMODYNAMICS N63-23325 14-11 PARASH-CR-50159 N63-16732 14-11 PARA HYDROGEN FROM 15 TO 100-DEG K AT PRESSURES TO 350 ATMOSPHERES - THERMODYNAMICS R-276 PARABOLIC REFLECTOR DESIGN, FORGICATION AND INSTALLATION OF 16-FOOT PARABOLIC REFLECTOR ANTENNA PARACHUTE AND HOT GAS BALLOON FOR SPACECRAFT LANDING ON MARS AND VENUS N63-23324 24-03 RECOVERY SYSTEMS CONSIDERATION - PARACHUTES N63-23325 24-06 PARACHUTE AND HOT GAS BALLOON FOR SPACECRAFT PARACHUTE AND HOT GAS BALLOON FOR SPACECRAFT PARACHUTE AND HOT GAS BALLOON FOR SPACECRAFT	SPECIFIC HEAT OF SATURATED LIQUID PARA-HYDROGEN	Albert Paul Assender to Acoust 1 as 1 tall and
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PARABOLIC REFLECTOR AND INSTALLATION OF 16-FOOT PARABOLIC REFLECTOR ANTENNA PAGE AND INSTALLATION OF 16-FOOT PARACHUTE IECHNOLOGY - REQUIREMENTS AND N63-23326 24-02 PARACHUT	VAPOR PRESSURE OF PARA HYDROGEN BETWEEN ITS BOILING POINT /20 DEG K/ AND ITS CRITICAL POINT /33 DEG K/ - CRYOGENIC THERMODYNAMICS	RECOVERY SYSTEMS CONSIDERATION - PARACHUTES N63-23325 24-06
PARSSURE-DENSITY-TEMPERATURE RELATIONS OF FULID PARA HYDROGEN FROM 15 TO 100-DEG K AT PRESSURES TO 350 ATMOSPHERES - THERMODYNAMICS R-276 PARABOLIC REFLECTOR DESIGN, FABRICATION AND INSTALLATION OF 16-FOOT PARABOLIC REFLECTOR ANTENNA PARAPOLIC REFLECTOR ANTENNA PARAPOLIC REFLECTOR ANTENNA PARAPOLIC REFLECTOR ANTENNA PARAPOLIC REFLECTOR FOR SPACECRAFT	NASA-CR-50159 N63-16732 14-11	
PARABOLIC REFLECTOR DESIGN, FABRICATION AND INSTALLATION OF 16-FOOT PARABOLIC REFLECTOR ANTENNA PARACHUTE AND HOT GAS BALLOON FOR SPACECRAFT	PARA HYDROGEN FROM 15 TO 100-DEG K AT PRESSURES TO 350 ATMOSPHERES - THERMODYNAMICS	ELASTIC CURVES REPRESENTING PARACHUTE CANDPY SHAPES AND STRESSES
	PARABOLIC REFLECTOR DESIGN, FABRICATION AND INSTALLATION OF 16-FOOT PARABOLIC REFLECTOR ANTENNA	PARAVULCOON PARAVULCOON RECOVERY AND LANDING SYSTEM — PARACHUTE AND HOT GAS BALLOON FOR SPACECRAFT

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TURBULENT RADIAL FLOW BETWEEN PARALLEL DISCS HAVING BOTH SUPERSONIC AND SUBSONIC FLOW REGIONS M63-23709 24-02

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EFFECTS OF ION ASSOCIATION ON ENERGY TRANSFER
RATES IN NAPTHALENE-NAPTHALENIDE SYSTEMS REASURED
BY PARAMAGMETIC RESONANCE LINE BROADENING METHOD
N63-12400 06-0 ANALOG COMPUTER STUDIES OF CHARACTERISTICS OF CUSHION AND PACKAGE DESIGNS IN ADVERSE ENVIRONMENT N63-16772 14-20 FLIGHT TESTS OF UNPOWERED, MANNED PARAGLIDERS
NASA-TN-D-1826
N63-14429 10-04 NEURON ACTIVITY BY PARAMAGNETIC RESONANCE PIBMRI-1071-62 N63-12700 06-15 AERODYNAMIC CHARACTERISTICS OF CANOPY PARAGLIDER FOR INSTRUMENT RECOVERY - MACH NUMBER, ANGLE OF ATTACK, SIDESLIP ANGLE NASA-TW-0-1776 N63-15235 11-4 REVIEW OF PARAMAGNETIC RESONANCE IN CRYSTALS AND SURVEY OF CRYSTALS FOR USE IN THREE-LEVEL MASERS IER SER. 60, ISSUE 439 N63-12746 06-25 RADIATION EFFECT IN POLYMERS AND GRAFT POLYMERIZATION BY ELECTRON PARAMAGNETIC RESONANCE MEASURING MICROMETEORITE HAZARD WITH PARAGLIDER LAUNCHED FROM AEROBEE 150 ROCKET N63-12999 N63-17744 16-12 PARAMAGNETIC RELAXATION FOR GROUND STATE - KRAME DOUBLET OF IRON IN DILUTE POTASSIUM FERRICYANIDE AF-99 N63-13422 08-SHALL ROCKET LIFT DEVICE FOR MANNED SPACECRAFT -PARAGL IDER N63-17941 16-27 OXYGEN-WATER VAPOR MIXTURES UNDER RF EXCITATION BY ELECTRON-PARAMAGNETIC RESONANCE TECHNIQUES AOMC-RR-TR-62-3 N63-14516 10-07 FLEXIBLE WINGS RED - STABILITY & CONTROL OF PARA-GLIDERS AS DECELERATORS FOR SPACECRAFT RECOVERY N63-23319 24-0 NARROW LINE PARAMAGNETIC RESONANCE ABSORPTION SPECTRUM IN IRRADIATED CALCITE SINGLE CRYSTALS ARF-A1216-7 N63-14831 1 CONSISTENT SYSTEM OF ASTRODYNAMIC CONSTANTS -ASTRONOMICAL UNIT, SOLAR PARALLAX, AND OTHERS INFLUENCE OF ELECTRON INTERACTIONS ON SPECIFIC HEAT AND PARAMAGNETIC SPIN SUSCEPTIBILITY OF ALKALI METALS N63-15907 1 N63-15907 13-25 PULSE HEIGHT CALCULATIONS FOR A PARALLEL PLATE ELECTRODE IONIZATION CHAMBER CONTAINING AN ATTACHING GAS ENERGY LEVELS OF MAGNETIC IONS IN COMPLEX METAL
OXIDES - ORTHOFERRITE PARAMAGNETIC RESONANCE AND SPIN STRUCTURE COMPARED TO ORTHOALUMINATES AFCRL-63-103 13-23 CAPACITIVE TRANSDUCERS FOR NARROW BAND VIBRATORY DISPLACEMENT OUTPUT OF ANGULAR MOTION SEMSORS -ENERGY DEMSITY CALCULATION FOR PARALLEL PLATE TYPE ESL-R-153 N63-13604 08-15 NUCLEAR MAGNETIC RESONANCE IN PARAMAGNETIC MATERIALS AND RARE EARTH METALS PARALLEL PLATE PLASHA CAPACITOR - IMPEDANCE, DENSITY AND PERTURBATION PARAMAGNETIC RESONANCE OF IMPURITIES IN NATURAL CRYSTALS OF CALCITE AND BARITE MASERS 14-24 N63-20413 01-82-0173 N63-16930 FLOW OF DISSOCIATING NITROGEN BETWEEN TWO PARALLEL PLATES - RESULTS USED TO ESTIMATE FLOW OF AIR FTD-TT-62-1145/16264 N63-16933 14-11 PARAMAGNETIC RESONANCE-ABSORPTION SPECTRUM OF TITANIUM ION IN CORUNDUM - ALUMINUM OXIDE CRYSTALS AFCRL-73-171 N63-20940 21-25 SECONDARY EMISSION DISCHARGE BETWEEN PARALLEL PLATE ELECTRODES PARAMETER S SLATER-CONDON PARAMETER N63-17582 16-23 PARAMETRIC AMPLIFIER
LOW NOISE PARAMETRIC AMPLIFIER FOR RADAR TRACKING
OF SOUNDING ROCKET
N63-13258 07-09 DIRECTIONAL CHARACTERISTICS AND INPUT IMPEDANCE OF TWO-ELEMENT YAGI ANTENNA IN PARALLEL PLATE REGION - THEORY AND EXPERIMENT GAIN, BANONIDTH, NOISE AND SYSTEM TESTS FOR PERFORMANCE OF RADAR PARAMETRIC AMPLIFIER N63-13480 08-08 AFCRL-63-107 N63-18005 16-08 WAVE PROPAGATION ALONG INFINITE YAGI ANTENNA IN DEVELOPMENT OF PARAMETRIC AMPLIFIER DIPOLE AMTERNA N63-14553 10-09 PARALLEL PLATE REGION AFCRL-63-108 N63-18006 16-09 CURRENT DISTRIBUTION AND IMPEDANCE OF ANTENNA IN PARALLEL PLATE REGION AFCRL-63-90 N63-18007 16-0 BROADBAND VARACTOR PARAMETRIC AMPLIFIER -TRANSDUCER POWER GAIN, SINGLE & MULTIPLE VARACTOR AMPLIFIER CURRENT DISTRIBUTION AND IMPEDANCE CHARACTERISTICS OF COUPLED ANTENNAS IN PARALLEL PLATE REGION -THEORY AND EXPERIMENT SPACE CHARGE EFFECTS IN CYCLOTROM WAYE DEVICES DC PUMPED PARAMETRIC AMPLIFIERS - MICROWAYE
SPECTRUM STUDY N63-18708 17-23 N63-18008 AFCRL-63-106 FORCED CONVECTION HEAT FLOW BETWEEN TWO PARALLEL PLATES - VARIABLE TEMPERATURE DISTRIBUTION, SPACING, AND HEAT DISTRIBUTION NASA-RP-8 NASA-20040 21-1 PARAMETRIC AMPLIFIER IMPEDANCE TUNING & BENDIX CIRCULATOR PERFORMANCE - SOLID STATE DEVICES RADC-TDR-63-283 N63-20115 20-09 N63-20960 21-13 HEAT TRANSFER IN RAREFIED GAS BETWEEN PARALLEL PLATES AT LARGE TEMPERATURE RATIOS BIBLIOGRAPHY ON PARAMETRIC AMPLIFIERS N63-21568 22-11 SOLID STATE AMPLIFIERS - PARAMETRIC AMPLIFIERS.
TUNNEL DIODE AMPLIFIERS AND RECEIVER SYSTEMS
ASD-TDR-63-045 N63-23137 24-08

PARASTATISTIC CONNECTION WITH SPIN AND THE THEOREM

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REPRESENTATION OF PARAFERMI RIN OF OSCILLATORS	GS - PARASTA	TISTICS	PARTICULAR SOLUTIONS OF LINEAR PARTIAL DIFFERENTIAL EQUATIONS USING INTEGRAL OPERATO	
NYO-10262	N63-16022	13-23	METHOD - ALGOL COMPUTER PROGRAM	12-20
PARAWING			10-14 Pro- 57 (4-14)	
EFFECTS OF CAMBER AND TWIST ON CHARACTERISTICS OF PARAMINGS NASA-TN-D-972	N63-12287	05-02	ANALOG-DIGITAL COMPUTATION TECHNIQUES - PARTI Differential Equations - Speech Synthesis - Digital Computer Cathode Ray Tube Display	
PRESSURE DISTRIBUTIONS ON 3 RIG PARAWINGS WITH VARIED CANOPY CU	ID WINGS SIM	ULATING	ESL-FR-165 N63-16395 PEACEMAN-RACHMAN METHOD APPLIED TO FINITE	14-20
EDGE SHEEP AT MACH 2.29 TO 4.65	N63-14252	10-03	DIFFERENCE APPROXIMATIONS OF PARTIAL DIFFERENT EQUATIONS	1.44
CABLE RIGGING AND AERODYNAMIC C	HARACTER ISTI	CS OF	WAPD-TM-367 N63-17103	15-20
PARAWING-SPACECRAFT COMBINATION NASA-TN-D-1937		17-03	COMPARISON OF SIX CALCULATION METHODS TO SOLVI NONLINEAR PARTIAL DIFFERENTIAL EQUATION WITH SHOCKS AND RAREFACTION WAVE - COST AND ACCURA	
DEPLOYMENT, DYNAMIC STABILITY, CHARACTERISTICS OF PARAWING-ROCK	AND CONTROL KET BOOSTER	MODEL	NOLTR-63-8 N63-18260	17-20
USING RADIO-CONTROL FREE-FLIGHT NASA-TN-0-1932	N63-19607	19-31	CAUCHY PROBLEM FOR DEGENERATIVE LINEAR PARABO PARTIAL DIFFERENTIAL EQUATIONS OF STOCHASTIC CONTROL THEORY	LIC
WIND TUNNEL STABILITY AND CONTRO				18-20
FLEXIBLE WING MANNED AIRCRAFT - NASA-TN-D-1946	PARAWING N63-19736	19-04	EULER-CAUCHY METHOD FOR NUMERICAL INTEGRATION PARTIAL DIFFERENTIAL EQUATIONS	OF
LOW SPEED WIND SWEEP EFFECT ON I				18-20
CHARACTERISTICS NASA-TN-D-1957	M49 10797	19-03	PARTIAL DIFFERENTIAL EQUATION SOLUTIONS BY BEI	
PARAVING GLIDER	14171.1		The self of the second and the self-self-self-self-self-self-self-self-	19-20
DYNAMIC STABILITY OF TOWED PARAM NASA-TN-D-1614	N63-13791	09-02	PARTIAL DIFFERENTIAL EQUATION DERIVATION FOR ATMOSPHERIC GRAVITY WAVES NASA-CR-51163 N63-21950	22-11
PARKING ORBIT	THE VALUE OF	11274	Eller Andrew Committee and State Committee and	
EARTH-MOON VERSUS PARKING-ORBIT LUNAR SOFT-LANDING MISSION	TRAJECTORY	FOR	PARTICLE SA ALPHA PARTICLE	
JPL-TH-33-114	N63-17214	15-29	SA ANTIPARTICLE	
THREE-BODY MOON-EARTH SATELLITE	ORBIT AND		SA CHARGED PARTICLE	
TRAJECTORY CALCULATIONS FOR INJE PERISELENUM	ECTION AND		SA ELEMENTARY PARTICLE	
NASA-TH-X-50278	N63-19963	19-29	SA NEUTRAL PARTICLE	
ORBITAL FLIGHT HANDBOOK - CALCUL ORBITS, MISSION AND GUIDANCE & C NASA-SP-33, PT. 3			SA NUCLEAR PARTICLE SA RELATIVISTIC PARTICLE SA TRAPPED PARTICLE CF ELEMENTARY PARTICLE	
			HEAT TRANSFER AND PARTICLE TRAJECTORIES IN SOI	LID
CF HEAT EQUATION			ROCKET NOZZLES BSD-TOR-62-165 N63-10109	01-13
CF LAGRANGE MULTIPLIER BERS-BELTRAMI AND LINEAR ELLIPTI PARTIAL DIFFERENTIAL EQUATIONS			SOLID STATE CHARGED PARTICLE SILICON DETECTOR: ARL-62-406 N63-10128	S 01-15
HRC-354	N63-12385	06-20	HYPERVELOCITY PARTICLE EFFECTS ON MATERIAL	
EXISTENCE THEOREM FOR PARTIAL DI EQUATION WITH LINEAR COMBINATION			TO-8-62-3 N63-10161	01-34
NOLTR-62-177	N63-12736	06-20	EFFECT OF OXIDIZER PARTICLE SIZE ON ADDITIVE AGGLOMERATION	
SIMILARITY SOLUTIONS OF PARTIAL EQUATIONS OF BOUNDARY LAYER	DIFFERENTIA	Seyao		01-25
MRC-375	N63-13336	08-20	DRAG OF CYLINDERS IN STEADY PARTICLE-LADEN GAS	S
PROGRAMMING APPROXIMATE SOLUTION SYMMETRIC PROBLEMS - DIRICHLET P				02-11
ELLIPTIC PARTIAL DIFFERENTIAL EQ		08-20	TERMINAL BALLISTICS — IMPACT AND EFFECT OF ULTRAHIGH SPEED MICROM-SIZE PARTICLES APGC-TOR-62-69 M63-11028	03-23
INITIAL-BOUNDARY VALUE PROBLEMS HYPERBOLIC PARTIAL DIFFERENTIAL	FOR LINEAR EQUATIONS -	THEORY	OBSERVATIONS AND EXPERIMENTS REGARDING THE OR	IGIN
OF DIFFRACTION MRC-301	N63-14505	10-20	OF THE AURORA N63-11288	
DIFFERENCE APPROXIMATIONS WITH N COEFFICIENTS FOR PARTIAL DIFFERE	ON-NEGATIVE NTIAL EQUAT		DUST PARTICLE DISTRIBUTION IN EARTH ATMOSPHERE 50K TO 90K FEET N63-11499	03-12
NRC-323 COMPUTER PROGRAM OF SET OF SIMUL	The Islandion	10-20	ELECTROMAGNETIC INDUCTION METHOD FOR MEASURING PARTICLE VELOCITIES ASSOCIATED WITH STRESS WAY PROPAGATION IN BARS	
DIFFERENTIAL EQUATIONS RELATING KINETICS IN UPPER ATMOSPHERE		23.825		04-33
AFCRL-62-1132	N63-14592	10-20	DESIGN OF MAGNETIC MOMENTUM SLITS FOR SEPARATI PARTICLES IN A BEAM - DETERMINATION OF FRINGIN	
NONLINEAR MODELING OF SCALE MODEL USING PARTIAL DIFFERENTIAL EQUAT			FIELDS SLAC-6 N63-11870 C	04-23
RESTRICTIONS AFCRL-62-573	N63-15040	11-20	BOUNDARY LAYER FLOW WITH SUSPENDED PARTICLES UPSTREAM OF LEADING EDGE OF PLATE	
MICLARIA RECOV				

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1

3

5

4

5

1

3

2

2

3

3

AERONAUTICAL ENG. REPT.-620 N63-11957 05-11 EQUATIONS FOR THO-DIMENSIONAL AND AXISYMMETRICAL FLOW OF GAS-PARTICLE MIXTURES IN ROCKET NDZZLES AFBSD-TDR-62-144 N63-11959 05-11 NUCLEAR STAR DENSITY PRODUCED BY 24-GEV PROTON BEAM IN HEAVY CONCRETE N63-11983 05-23 MAGNETIC FIELD CONFIGURATION & SELF-CONSISTENT DISTRIBUTION OF ELECTRONS IN ASTRON MACHINE F-LAYER 05-12 THREE-BODY COLLISION RATES IN ATOMIC RECOMBINATION N63-12079 05-23 EFFECT OF VACUUM ON PENETRATION CHARACTERISTICS OF PROJECTILES INTO FINE PARTICLES N63-12244 05-23 NASA-TN-D-1519 ABSOLUTE INTENSITIES OF GEOMAGNETICALLY TRAPPED PARTICLES WITH EXPLORER XIV DENSITY & MOTION OF SPHERICAL SWARM OF PARTICLES ABOUT FIXED ATTRACTING MASS RELATED TO OBSERVATION OF DUST CLOUDS NEAR STABLE L-POINTS DESIGN OF MAGNETIC SYSTEMS FOR SECONDARY BEAMS IN PPAD-459-F N63-12459 06-23 PHOTOMICROGRAPHY MEASUREMENTS OF GRAIN DENSITIES
OF IONIZED PARTICLE TRACKS IN NUCLEAR EMULSIONS
USNRDL-TR-591 N63-12481 06-15 NOTION OF PARTICLES IN CIRCULAR-TYPE ACCELERATOR N63-12569 THREE-PARTICLE SCATTERING IN PLANE USING INTEGRAL EQUATION METHOD N63-12610 06-23 PLASMA OSCILLATIONS AND PARTICLE TRAJECTORIES IN ELECTRON STREAM - PALMER DIAGRAMS IER SER. 60, ISSUE 458 N63-12734 06-24 N63-12734 06-24 HEAVY-PARTICLE ELECTROSTATIC THRUSTORS - NASA IAS PAPER-43-19 07-27 ELECTRON STRAGGLING THEORY AND CALCULATION AFCRL-62-973 N63-13150 COSMIC DUST EXPERIMENT ON MARINER II TO MEASURE FLUX OF INTERPLANETARY DUST PARTICLES BETMEEN FARTH AND VENUS N63-13152 07-07-29 INTERPLANETARY MEDIUM - FIELDS AND PARTICLES DATA FROM MARINER II VENUS PROBE N63-13194 07-29 QUANTUM ELECTRODYNAMICS WITHOUT ELECTROMAGNETIC FIELD NY0-10255 N63-13323 LUNAR SURFACE BALLISTICS, HAZARDS OF SPACECRAFT LANDING OR LAUNCHING, PARTICLES — EXHAUST GASES MASA-TN-D-1526 M63-13515 OB MASA-TN-D-1526 08-29 INTERACTION OF HIGH ENERGY PARTICLES IN BUBBLE CHAMBER STUDIED BY SPARK CHAMBER LABELING OF BNL-746/T-272/ N63-13551 08-23 STABILITY OF RELATIVISTIC PARTICLE BEAM PASSING THROUGH PLASHA LA-2802 N63-13668 08-24 MIE SCATTÉRING FUNCTION FOR SPHERICAL PARTICLES
APPLIED TO THE CONTINUUM OF COMETS - REFRACTIVE
INDEX, INTENSITY, AND POLARIZATION DELINEATION OF TRACKS OF HEAVY COSMIC RAYS AND NUCLEAR PROCESSES WITH IN LARGE SILVER CHLORIDE

NASA-TH-D-1547 N63-13715 08-20 SPECTROSCOPIC STUDY OF CORPUSCULAR EJECTIONS ON THE SUN - FACULAE EMISSION FROM HYDROGEN AND CALCIUM N63-13777 08-28 LECTURES ON SOLAR CORPUSCULAR STREAMS AND THEIR EJECTION N63-13779 08-28 MEASUREMENT OF PARTICLE DAMAGE TO SURFACES OF SPACE VEHICLES AFCRL-63-20L N63-14064 N63-14064 09-30 PROPERTIES OF VERTEX FUNCTIONS OF STRONGLY INTER-ACTING PARTICLES - RELATIONS BETWEEN MASS AND COUPLING CONSTANT - ANOMALOUS MAGNETIC MOMENT N63-14235 HIGH ENERGY RADIATION FROM THE SUM - ENERGETIC PARTICLE FLARES, GAMMA RAYS, AND RADIDACTIVITY EFINS-63-9 N63-14328 10-28 CHARGED PARTICLE 3-ELECTRODE TRAP EXPERIMENTS IN 2ND RADIATION BELT AND OUTERMOST BELT OF CHARGED PARTICLES N63-14537 10-2 DESIGN STUDY FOR 300 TO 1000-BEV ACCELERATOR - SHIELDING, PROTON BEAM KINETICS, PARTICLE DETECTION AND IDENTIFICATION N63-14949 1 N63-14949 11-15 PROTON FLUXES ALONG TRAJECTORIES THROUGH INNER VAN ALLEN BELT N63-15151 11-20 ONE-DIMENSIONAL NOZZLE FLOW OF GAS-PARTICLE MIXTURES N63-15300 NONSTEADY AND NONEQUILIBRIUM TWO-PHASE FLOW PROBLEM - GAS CARRIER AND SMALL PARTICLES - SQUID PROJECT N63-15350 12-01 MOTION OF ELECTRON IN MAGNETIC BOTTLE - PARTICLE TRAJECTORY IPPJ-2 N63-15423 12-24 INFLUENCE OF FERMION STATISTICS ON DENSITY MATRICES - MANY-PARTICLE PROBLEM OF QUANTUM MECHANICS TN-80 NA3-15461 12-23 SPECTRA AND PROBABILITIES OF ETA-MESON DECAY BY ELECTRON-POSITRON DECAY MODE & BY NUON-MUON DECAY MODE - TWO-LEPTON SYSTEMS - NUCLEAR PHYSICS N63-15569 DECAY OF ETA-MESON LNF-62/99 N63-15572 12-23 SOLAR SPOTS AND FLARES AS VISIBLE SIGNAL FOR RELEASE OF ENERGETIC PARTICLES 12-28 ELASTIC BEHAVIOR OF NONADHESIVE RUBBER BINDER CLOSE-PACKED WITH RIGID SPHERICAL PARTICULATE INCLUSIONS — MATHEMATICAL MODEL FOR SIMPLE TEMSION GALCIT-SM-63-2 13-33 THERMOELECTRICITY - IONIZATION OF SOLID PARTICLES
AND ELECTRON GLOUD DISTRIBUTION
ILL-10-P
N63-16349
14-11 PATTERN RECOGNITION DEVICE FOR LINE SEGMENT DETECTION FOR USE WITH BUBBLE CHAMBER PARTICLE TRACKS NY0-2667 14-15 N63-16469 SOURCE POSITIONS AND EXIT PATHS FOR BEVATRON BEAMS UCRL-10705 N63-16505 14-24 MICROMETEORITE PARTICLES FROM SOUNDING ROCKET N63-16637 14-29 MICROMETEORITE PARTICLES FROM SOUNDING ROCKET AND ELECTRON HICROSCOPY N63-16638 14-29 MICROMETEORITE PARTICLES FROM SOUNDING ROCKET PARTICLE SIZE AND FLUX H63-16639 14-29 DETECTION OF SOLAR PARTICLE STREAMS BY MEASURING POLARIZATION OF HIGH FREQUENCY RADIO WAVES

PARTI EF OF LA PARTI MA AN AF PA AC JP RE NO SY

SEL-63-041	N63-17573	16-08	JPRS-13770	N63-13827	09-23
EFFECTS OF GAS-PARTICLE MIXT ROCKET NOZZLES			AUTOPHASING OF ACCELERATED CYCLOTRONS, AND ACCELERATO	RS WITH STABLE COM	TACT
JPC-348	N63-17595	16-11	ORBITS	N63-13995	09-23
QUANTUM MECHANICS — CALCULAT PARTICLE EMISSION AND SPIN D INDIUM			SPACE-CHARGE LIMIT AND CON ACCELERATION WITH HIGH-INT LASER RADIATION FOR ACCELE	ENSITY LIGHT WAVES	
MATERIALS SCIENCE - EMBRITTL			SLAC-12	N63-14556	10-23
PARTICLE BEAM EFFECTS & STRA MATERIALS MANUFACTURING	IN RATE EFFECTS	IN	CHARGED PARTICLE ACCELERAT SHOCK WAVES IN MAGNETOSPHE		ETIC
CAL-NH-1559-P-3	N63-18023	16-17	RM-3527-NASA	N63-17101	15-24
CALCULATION OF PARTICLE /RES LIFETIME - QUANTUM MECHANICS		17-23	SURVEY OF ENERGETIC PARTIC BELT - EXPERIMENTAL DATA O SPECTRA AND ACCELERATION		ATION
ABSORPTIVITY AND EMISSIVITY		LES IN	NASA-TN-D-1749	N63-18458	17-12
GAS STREAM - HEAT TRANSFER T NASA-CR-50317	N63-18370	17-13	EFFECTS OF BURNING AND ACC		
SURVEY OF ENERGETIC PARTICLE		ATION	COEFFICIENTS OF PARTICLES ACCELERATING IN GAS STREAM		17-26
BELT - EXPERIMENTAL DATA ON SPECTRA AND ACCELERATION	PARTICLE FLUX,		RANDOM ACCELERATION PROBLE	M - DIFFERENTIAL	
NASA-TN-D-1749	N63-18458	17-12	EQUATION SOLUTION - CAUCHY MRC-403	N63-19126	18-20
THERMIONICALLY EMITTING PART				(1 1011 1 2400 5 7 7 7 7 7)	1 15 77
EXHAUSTS - MICROWAVE SPECTRU	N63-18716	17-24	PLASMA STABILITY, PARTICLE SYSTEMS, AND SUPERCONDUCTI ORNL-3472		19-24
PARTICLE DETECTION IN SPACE DETECTOR, PULSE AMPLIFIER, N			MACROPARTICLE ACCELERATION	WITH SEQUENCED H	IGH
RADIATION SENSITIVE MICA R63SD37	N63-19021		EXPLOSIVE IMPULSES FA-M64-5-1	N63-22814	23-23
and the same layers of the same layers				NO3-22814	10.75
SHOCK RELAXATION IN GASEOUS PARTICLES AND PARTICLE DRAG CAL-90-P		18-11	SA BETATRON SA BEVATRON		
RELATIVISTIC ANGULAR CORRELA	TION THEORY OF		SA CYCLOTRON SA ELECTRON ACCELERATOR		
SUCCESSIVELY DECAYING PARTIC NYO-10267	N63-19289	18-23	SA HALL ACCELERATOR		
COMBINED RETARDING POTENTIAL	ANALYSTS OF		SA PHASOTRON		
PHOTOELECTRONS AND ENVIRONME IN UPPER ATMOSPHERE			SA SYNCHRO-CYCLOTRON		
IONOSPHERE ELECTRON AND ION			SA VAN DE GRAAF ACCELERATOR		
ANTENNA IMPEDANCE PROBE AND PROBE EXPERIMENTS	N63-19690	19-12	SURVEY OF RECENT NUCLEAR R ONE TO THREE MEV PARTICLE AFCRL-62-162		01-23
GNONE PROJECT - SHOCK WAVE P PARTICLE VELOCITY PROFILES	ROPAGATION AND		TRANSVERSE SPACE CHARGE EF	FECTS IN PARTICLE	
PNE-104F	N63-19709	19-23	ACCELERATORS		00.00
ELECTROMAGNETIC PROPERTIES O	F PARTICLES AND		HURA-649		02-23
RESONANCES ACCORDING TO UNIT		21-23	THE METEOROID HAZARD AND PACCELERATING PARTICLES	ROPOSAL FOR N63-10914	02-30
THEORIES OF AURORAL PRIMARY AURORAL SPECTROSCOPY	PARTICLES IN SP N63-20985	ACE - 21-12	REACTOR INSTRUMENTATION AN MONITORING, NUCLEAR SPECTR HIGH-VOLTAGE ACCELERATOR SI	OSCOPY, DATA PROCE	
HYDRODYNAMIC PROCESSES IN PS		E LAYER	ORNL-3191		11-01
OF SOLID PARTICLES UNDER HIGH TIL/T-5352	N63-22467	23-11	PARTICLE ACCELERATORS AND		INES 14-23
MOMENTUM SPECTRUM OF SECONDA		CLES	Control of the Assessment of the Control of the Con	Later Children	
FROM HIGH ENERGY ATOMIC COLL URPA-2	N63-22473	23-23	SIMULATION OF SPACE ENVIRON PENETRATION RADIATIONS USI	NG PARTICLES GENER	
RELEASE OF AIRBORNE PARTICLES CONTROLLING WEATHER	AT HIGH ALTIT	UDES & 23-18	BY HIGH ENERGY ACCELERATOR: AEDC-TDR-63-118	N63-18731	17-28
ENERGY DEPENDENCE OF SECONDAI	RY ENISSION HOW	ITOR	FIXED FIELD AND FREQUENCY, ACCELERATOR WITH STRONG FO		
BY RELATIVISTIC ELECTRON BEAT			PROTON ACCELERATION TO 1-GO ORNL-3431		18-23
GEOPHYSICS - MORPHOLOGY AND			HIGH ENERGY NUCLEAR PHYSIC		
INTENSITY OF VAN ALLEN BELT, EQUATORIAL RING CURRENT	GEOMAGNETISM OF N63-23541	24-12	ACCELERATORS AND NUCLEAR EL CERN-63-22	NULSTONS N63-20459	20-23
PARTICLE ACCELERATION	V ATT AND THE OWN	natral ja	TWO-MILE PARTICLE ACCELERA		22.22
CONDUCTIVE HEATING OF SOLAR I			SLAC-18	N63-22481	23-23
STL-9990-6382-RU-000	N63-13671	08-28	IRRADIATION FACILITIES - S' GAMMA RAY, NEUTRON, & PART		SED,
CYBERNETIC ACCELERATOR FOR PA OF 1000 BEV - AUTOMATION	ARTICLES WITH E	WERGIES	REIC-31, PT. 1	N63-22634	23-23

3

1

8 F

3

3

PARTICLE ACCELERATOR FACILITIES REIC-31, PT. II	CERENKOV RADIATION FROM CHARGED PARTICLE IN MOTION THROUGH DIELECTRIC WITH METAL FILMS AFCRL-63-80 N63-14819 11-23
RADIOFREQUENCY SYSTEM FOR HIGH ENERGY PARTICLE ACCELERATOR LNF-63/53 N63-23197 24-06	NEUTRON THERMALIZATION IN SOLIDS - NEUTRON SCATTER BY ATOMS WHOSE MOTIONS ARE RESTRICTED BY CRYSTAL BONDS - ENERGY TRANSFER APPROXIMATIONS
LINEAR THEORY OF ACCELERATORS - SYNCHOTRON AND BETATRON - COUPLING COEFFICIENTS FOR HORIZONTAL DSCILLATIONS	LA-2834 N63-15219 11-23 CANONICAL FORMALISM OF MOTION OF CHARGED PARTICLES
LNF-63/55 N63-23198 24-23	IN MAGNETIC FIELD NAS-15503 12-24
ARTICLE COLLISION NUCLEAR REACTIONS INDUCED BY PIONS AND PROTONS	NONADIABATIC MOTION OF A CHARGED PARTICLE IN AN
EXCITATION FUNCTION EVIDENCE FOR ELEMENTARY PARTICLE COLLISIONS IN NUCLEAR MATTER UCRL-10531 N63-12422 06-23	EXTERNAL MAGNETIC FIELD N63-15868 13-24
LOW NUCLEON MOMENTUM TRANSFER COLLISIONS - PION-	VACUUM AND GAS DIODES - CHARGED PARTICLE MOTIONS IN GAS DIODE WHEN TUBE CURRENT IS SPACE CHARGE
PION INTERACTIONS UCRL-10703 N63-15889 13-23	LIMITED - ELECTRON VELOCITY IN DISCHARGE REGION N63-16572 14-09
INTERACTIONS OF COLLISION-PRODUCED PARTICLES - COMPETITION AMONG RESONANCES N63-16291 13-23	CLASSICAL HECHANICS - HAMILTONIAN PARTICLE MOTION
SU-SUB-3 INVARIANCE ANALYSIS - MESON PRODUCTION,	NYO-10263 N63-16778 14-24
PARTICLE INTERACTIONS, NUCLEAR PHYSICS NYO-10268 N63-19290 18-23	STELLARATOR PARTICLE CONFINEMENT AND POWER BALANCE MATT-205 23-24
GRAVITATIONAL INSTABILITY OF PLASMA PLANE BOUNDARY IN MAGNETIC FIELD - PARTICLE COLLISION	IMPINGEMENT OF AIRBORNE WATER PARTICLES ON 90-DEG TURNING VANE
NUP-63-2 N63-19344 18-24	AEDC-TDR-63-195 N63-22613 23-11
NEUTRAL-PION PRODUCTION FROM PROTON-PROTON COLLISIONS AT 735 MEV UCRL-10621 N63-19401 19-23	SPINNING PARTICLE MOTION IN TETRAD THEORY OF GRAVITATION LNF-62/105 N63-22969 23-23
TOWN THE PROPERTY OF THE PROPERTY OF THE PERSON OF THE PER	STABILITY COLUMN TO THE PROPERTY OF THE PROPER
CHARGE EXCHANGE REACTION BETWEEN TWO COLLIDING CHARGED PARTICLES GA-4322 N63-19599 19-23	AERODYNAMIC CHARACTERISTICS OF GRAPHITE PARTICLES FTD-TT-63-393/16264 N63-23736 24-02
PARTICLE INTERACTIONS WITH SOLID SURFACES - MEASUREMENTS USING MOLECULAR BEAM TECHNIQUES GDA-63-0592 N63-19872 19-23	PARTICLE PRODUCTION SINTERING AND SINGLE CRYSTAL PRODUCTION OF ALUMINUM OXIDE AND MAGNESIUM OXIDE POWDERS - SOLID STATE REACTIONS
OPTIMUM ENVIRONMENTAL PROTECTION AGAINST METEOROID	ASD-TDR-62-732 N63-17304 15-18
PENETRATION NASA-CR-50899 N63-20316 20-16	TABLES OF ANISOTROPY FACTORS TO DETERMINE, BY ASSOCIATED PARTICLE METHOD, TOTAL NEUTRON YIELDS FROM NUCLEAR REACTIONS
KINEMATICS OF ELEMENTARY PARTICLES AS FUNCTION OF MOMENTUM - DYNAMIC QUANTITIES FROM ELEMENTARY	UCRL-10752, SUPPL. N63-17619 16-23
PARTICLE-PROTON INTERACTION UCRL-2426, VOL. III N63-22354 23-23	ATMOSPHERIC RADIATION - AURORAL SPECTROSCOPY AND PARTICLE PRODUCTION - ELECTRONS AND PROTONS No.3-18474 17-12
DRESSED PARTICLE MODEL FOR COMPUTING LONG & SHORT RANGE PARTICLE COLLISION EFFECTS FOR TRANSPORT PROPERTIES IN PLASMA	NEUTRAL-PION PRODUCTION FROM PROTON-PROTON
VIDYA-101 N63-23589 24-24	UCRL-10621 N63-19401 19-23
PARTICLE COUNTER COINCIDENCE COUNT ALPHA PARTICLE AIR MONITOR N63-11976 05-15	CROSS SECTIONS, ANGULAR DISTRIBUTION, AND POLARIZATIONS OF STRANGE PARTICLE PRODUCTION BY MESONS
THE RESERVE OF THE PROPERTY OF	UCRL-10838 N63-20712 21-23
PRIMARY COSMIC RAY AND SOLAR PROTON FLUX OBSERVED BY HIGH ALTITUDE BALLOON FLIGHTS — RELATIONSHIP TO SOLAR ACTIVITY CYCLES N63-12347 05-28	LIQUID METAL AND ORGANIC FLUID SUBMICRON PARTICLE GENERATOR
TIME-RESPONSE OF TRANSMISSION-TYPE DYNODE USING POTASSIUM CHLORIDE FOR HIGH SPEED COUNTING N63-13592 08-23	PARTICLE PROPERTY MANY-PARTICLE THEORY - MOTION AS INTRINSIC
MUNICALOXISTS YOU CONTRACT THE VEHICL SERVING SALES NEEDS IN	PROPERTY OF A PARTICLE, INDEPENDENT OF EXTERNAL
EFFECT OF NONLINEARITY ON STABILITY AUGMENTATIONS OF SIMPLIFIED PARTICLE IN CELL DIFFERENCE EQUATION	MOTIVE FORCES - APPLICATIONS AEC-TR-3406 N63-12233 05-23
LA-2414 N63-14711 10-20	NATURAL BOUNDARY OF ELASTIC TWO-PARTICLE SCATTERING AMPLITUDE
ARTICLE MOTION MATHEMATICAL CORRELATION OF TURBULENT DIFFUSION	NCRL-10615 N63-12943 07-23
AND BROWNIAN MOTION OF PARTICLES AFCRL-62-1107 N63-13689 08-20	GALCULATING GROUND STATE PROPERTIES OF MANY PARTICLE SYSTEMS USING REDUCED DENSITY MATRICES - QUANTUM MECHANICS
PARTICLE MOVEMENT THEORY AND INCREASING CYCLIC ACCELERATOR EFFECTIVENESS	OUANTUM MECHANICS N63-19154 18-23
JPRS-13752 N63-13993 09-23	PARTICLE SIZE PRECIPITATE CLUSTERING IN BINARY ALLOYS - PARTICLE
RESEARCH IN THEORY OF MOVEMENT OF PARTICLES IN HODERN CYCLIC ACCELERATORS - BETATRON AND SYNCHROPHASOTRON N63-13994 09-23	SIZE RELATED TO AGING TIME IN QUENCHED ALLOYS
	ABSOLUTE LUMINOSITY, SIZE, AND VELOCITY OF

LABORATORY MIGROMETEGRS FROM HYPERVELOCITY IMPACT OF ARTIFICIAL METEOR	R-415-NASA N63-13030	07-32
BSD-TDR-62-270 N63-14304 10-29	LUNEBURG LENS - A PASSIVE REFLECTOR FOR SAT COMMUNICATION N63-17451	ELLITE 15-20
LAUTERBACH AND DAUTREBANDE AEROSOL GENERATORS IN STUDIES OF INHALATION TOXICITY - PARTICLE SIZE DISTRIBUTION LF-6 N63-14665 10-16	PATENT PROPOSED AMENOMENT TO MATIONAL AERONAUTICS AND SPACE ACT OF 1958 N63-11724	04-01
COLLOIDAL PARTICLE SIZE DISTRIBUTION CURVES DETERMINED BY SPECTRA OF LIGHT SCATTERING RATIO N63-15348 12-07	OWNERSHIP OF PATENTS ORIGINATING UNDER GOVE CONTRACTS FOR AERONAUTICAL & SPACE RESEARCH CONGRESSIONAL HEARINGS N63-11804	
MICROMETEORITE PARTICLES FROM SOUNDING ROCKET - PARTICLE SIZE AND FLUX N63-16639 14-29	PATENT RIGHTS FOR COMMUNICATIONS SATELLITES POLICY N63-19592	19-01
MECHANICAL PROPERTIES OF HIGHLY FILLED URETHANE ELASTOMERS - INFLUENCE OF PARTICLE SIZE AND CONTENT ON TENSILE PROPERTY AND SHEAR MODULUS CL-63-41, ADDEND. N63-19450 19-19	PATH SA CRITICAL PATH ANALYSIS CF HULTIPATH PROPAGATION CF TRAJECTORY PATH OF RAYS IN A SPECULAR OPTICAL SYSTEM FTD-TT-62-1218/162 N63-10443	
PARTICLE THEORY SOVIET CONFERENCE ON ELEMENTARY PARTICLE THEORY - SCATTERING, INTERACTIONS, GRAVITATION, AND QUANTUM FIELD THEORY	FTD-TT-62-1218/162 N63-10443 AIR TRAFFIC SURVEY, NORTH ATLANTIC REGION - N63-14613	01-23 1962 10-04
JPRS-17376 N63-12224 05-23	DIFFRACTION PATTERN ANALYSIS OF RECTANGULAR	12-11
PHYSICS REPORT - BUBBLE CHAMBER, PARTICLE THEORY, PION, HEAVY ION, S-MATRIX, ATOMIC BEAMS, SCATTER, X-RAY STUDY, INTERACTIONS	APERTURE IN PRESENCE OF ABERRATION - PART I DERIVATION OF GENERAL SOLUTION LMSC-6-90-62-116 N63-15960	
UCRL-10572 N63-14080 09-23	MINIMUM TIME TRACT DATA IN AIRWAYS DESIGN	
PROPERTIES OF VERTEX FUNCTIONS OF STRONGLY INTER- ACTING PARTICLES - RELATIONS BETWEEN MASS AND COUPLING CONSTANT - ANOMALOUS MAGNETIC MOMENT	OF LONG RANGE AND OVER-OCEAN ROUTES AD-294393 N63-16105	13-22
N63-14235 10-23 THEORY OF WAVE EQUATIONS FOR BARYONS	FLIGHT PATH TRACKING EQUIPMENT OF GERMAN AERONAUTICAL RESEARCH INSTITUTE OFL-169 N63-16300	13-29
M63-14979 11-23	RADIAL FLIGHT PATH CONTROLLING SYSTEM FOR	
PHYSICS SUMMARY - VAN DE GRAFF ACCELERATOR, NUCLEAR REACTIONS, MASS SPECTROSCOPY, SUPERCONDUCTIVITY, AND PARTICLE THEORY	AN/ASM-13 ANTENNA ANALYZER - DOPPLER NAVIGA RADC-TDR-63-128 N63-17627	16-09
ANL-6679 N63-15185 11-23	DIFFERENCE BETWEEN MISSILE LAUNCH TIMES AND SENSITIVITY TO SUNLIGHT	
PHASE-SPACE INTEGRALS FOR TWO AND THREE PARTICLE SYSTEMS - ENERGY EQUATIONS LNF-62/108 N63-15442 12-23	AMC-RG-TR-63-12 N63-18029 SPECTROMETRY OF ELECTRON INTERFERENCE - ELE	16-04 CTRON
CONNECTION BETWEEN NUCLEAR PARTICLE PARITY, STRANGENESS, AND ISOTOPIC SPIN LNF-63/22 N63-17126 15-25	OPTICAL PATTERNS FOR VELOCITY ANALYSIS RSIC-42 PATHOGEN	20-23
LNF-63/22 N63-17126 15-25 EFFECT OF EQUATIONS CHARACTERISTIC OF LORENTZ	PATHOGENIC MECHANISMS IN GAS AND FAT EMBOLI DISTRIBUTION BY CIRCULATORY SYSTEM	SM -
TRANSFORMATIONS ON QUANTUM MECHANICAL THEORY OF SPINNING PARTICLES	N63-13825	09-16
NYO-10270 N63-19230 18-23	SURVIVAL AND DETECTION OF PATHOGENIC MICROB THE ENVIRONMENT	ES IN
MEYL REFLECTIONS IN THE UNITARY SYMMETRY THEORY OF STRONG INTERACTIONS - MUCLEAR PHYSICS AND	JPRS-21246 N63-22573	23-16
PARTICLE THEORY NYO-10266 N63-19288 18-23	GAMMA AND FAST NEUTRON RADIATION EFFECTS -	EOR
APPLICATIONS OF GROUP THEORY TO STRONG PARTICLE INTERACTION - SYMMETRY SCHEME FOR ISOTOPIC SPIN NYO-10274 N63-20770 21-23	PATHOLOGY IN MICE GIVEN CHEMICAL COMPOUNDS RADIATION PROTECTION PRIOR TO PROTON IRRADI N63-17045	
HAMILTONIAN THEORY OF INTERACTING PARTICLES	PATHO-PHYSIOLOGIC ASPECTS OF RADIATION NEPH IN DOGS	RITIS
SATISFYING LORENTZ INVARIANCE PRINCIPLE NYO-10276 N63-20785 21-23	UR-626 N63-18825	18-16
HAMILTONIAN MODEL OF LORENTZ INVARIANT PARTICLE INTERACTIONS - QUANTUM MECHANICS	PATHOPHYSIOLOGY OF HIGHER NERVOUS ACTIVITY AND MEDICAL PSYCHOLOGY RESEARCH METHODS JPRS-20543 N63-19802	OF MAN 19-14
NYO-10275 N63-21205 21-23	PATHOLOGICAL EFFECTS OF COMBINED X-RAY RADI	
PROPOSED EXPERIMENTAL STUDY OF PI-PI MESON INTERACTION N63-23466 24-23	ELECTROMAGNETIC FIELD UNDER INDUSTRIAL COND JPRS-20872 N63-20696	ITIONS
ASSBAND IMPROVING THE PASSBAND CHARACTERISTICS OF PERIODIC INTERFEROMETRIC MODULATOR USING MULTIPLE	PATHOLOGICAL CHANGES IN INTERNAL ORGANS OF UNDER INFLUENCE OF FLIGHT N63-21508	
CORRELATION TECHNIQUES NASA-CR-50702 N63-18861 18-09	PATTERN S DIFFRACTION PATTERN S FLOW PATTERN	
ASSIVE SATELLITE COMMUNICATIONS SATELLITES - ACTIVE REPEATERS AND PASSIVE REFLECTORS N63-11143 03-30	S RADIATION PATTERN, DISTRIBUTION PATTERN RECOGNITION BILINEAR PATTERN CLASSIFIERS	
PASSIVE COMMUNICATION SATELLITE	PIBHRI-996-62 N63-11633	

01 T 01 5A 01

23 -04

-20

-22

-29

-09 SOR -04 N -23

-16 N -16

M i-16 S 3-16

0-14 DN 6 DNS 1-16 MALS 2-16

4-09

CORRELATION METHOD FOR RECOGNIZING PATTERNS - SCANNING DEVICE CYBERNETICS	NIKE-JAVELIN ROCKET INSTRUMENT PAYLOAD N63-19763 19-15
JPRS-17391 - TAIL 1 ALL THE N63-12325 05-09	EXPRESSING STATIC AND DYNAMIC UNBALANCE
SYMMETRY PATTERN RECOGNITION SYSTEM II - SYSTEM BASED UPON INHERENT SYMMETRY OF TYPICAL	FOR SPACECRAFT PAYLOADS NASA-TH-X-50175 STAFF SHIP UT N63-20247 20-33
SIGNAL DUE TO SATELLITE PASS NRL-5847 N63-13005 07-08	PAYLOAD CAPABILITIES OF VEHICLE CONTAINING LON- THRUST POWER-LIMITED PROPULSION SYSTEM FOR EARTH-
THEORY OF SEQUENTIAL PATTERN RECOGNITION - SCANNING QUANTITIZED, FINITE PATTERN FIELD - BINARY CODING	TO-MARS ROUNDTRIP MISSION N63-21903 22-32
EDC-1-62-14 N63-13262 07-20	REENTRY PHYSICS - CONVECTIVE AND RADIANT HEATING OF HEAT SHIELD-PAYLOAD FRACTIONS
EFFECT OF FIELD OF VIEW AND ORIENTATION ON TIME REQUIRED FOR STAR FIELD IDENTIFICATION — PATTERN RECOGNITION N63—14445 10-22	CE-II MATHI-ESM N63-23236 50:24-02 GUIDANE OF SAC CERAFT MPROSCHIM BAFF ET PROCESSOR OUT DATE OF SCHOOL SAC SECOND SAC SE
PROBLEM SOLVING - SEQUENTIAL ANALYSIS OF TARGET	S PEBBLE BED REACTOR EXPERIMENT /PBRE/#UR94JA708-22
DETECTION - PATTERN RECOGNITION AMRL-TDR-62-148 N63-14489 10-14	S PULSE CODE HODULATION /PCM/
PATTERN RECOGNITION COMPUTER USING MAGNETIC LOGIC CIRCUITS	S PULSE DURATION HODULATION /PDM/
R-141 N63-14802 AD 11-20	PEAKING CIRCUIT
PATTERN RECOGNITION DEVICE FOR LINE SEGMENT DETECTION FOR USE WITH BUBBLE CHAMBER PARTICLE TRACKS	FIVE REACTIVE ELEMENT THREE TERMINAL PEAKING CIRCUIT PIEMRI-1119-63 N63-14501 10-09
NYO-2667 N63-16469 14-15	OF DEPARTMENT STANDARD STANDARD BENEFIT STANDARD OF THE STANDARD S
AUTOMATIC PATTERN RECOGNITION - ANNOTATED	NUCLEATION OF PEARLITE IN IRON CARBON AUSTENITIC STEEL UNDER HIGH PRESSURE ASD-TDR-62-479, PT. I N63-18186 16-18
SB-63-13 N63-17447 15-20 GEOMETRIC MATHEMATICAL MODEL OF BLUNS THEORY OF	EFFECT OF HIGH PRESSURE ON AUSTENITE TO PEARLITE
PATTERN RECOGNITION AFCRL-63-164 N63-19524 19-14	REACTION ASD-TDR-62-479, PART I N63-20294 20-18
PHOTOGRAPHIC STUDIES OF HORIZON PATTERNS FROM HIGH ALTITUDES N63-19681 19-12	PEARSON DISTRIBUTION MATHEMATICAL STATISTICS AND PROBABILITY THEORY —
RECOGNITION THEORY APPLIED TO MISSILE IDENTIFICATION AND DECOY DISCRIMINATION N63-20404 20-08	GAMMA, EXPONENTIAL, AND PEARSON TYPE III DISTRIBUTION ARL-63-100 N63-20909 21-20
PATTERN RECOGNITION AND DETECTION BY MACHINE PIBHRI-1130-63 N63-21404 22-20	PEBBLE BED REACTOR EXPERIMENT /PBRE/ GAS-COOLED REACTOR PROGRAM - DESIGN, DEVELOPMENT AND PERFORMANCE ORM3372 N63-12316 05-10
RECOGNITION DEVICES - APPLICATIONS, LIMITATIONS, OPERATIONS, CLASSIFICATION OF METHODS AND TYPICAL RECOGNITION TECHNIQUES N63-21447 22-09	GAS-COOLED REACTOR PROGRAM - DESIGN, FUEL, MATERIALS, PEBBLE BED REACTOR EXPERIMENT ORM3254 May 11-23
AYLOAD DAYS MUTUALISM AND AY HEREN SEVER STORES AND	PECLET NUMBER PERMITTING BLASS (CONFIDENCE ADMA)
PAYLOAD CAPABILITIES OF ELECTRIC PROPULSION SYSTEMS FOR SPACECRAFT ARS PAPER-2654-62 N63-11266 03-27	LONGITUDINAL MIXING EXPERIMENTS IN PACKED GAS ABSORPTION COLUMNS USING TRACER-INJECTION TECHNIQUE - LIQUID & GAS PMASE PECLET NUMBERS
ELECTRIC PROPULSION FOR SPACECRAFT	UCRL-103940130 311.01439 - MUSTA N63-18823 18-11
NASA-SP-22 N63-11512 03-27	PELLET SUPERSONIC FLOW FIELD OF AN AEROBALLISTIC PELLET -
ENVIRONMENTAL TESTING PROCEDURES FOR TRANSIT SATELLITE PAYLOAD EQUIPMENT TG-416-A N63-11735 04-30	VELOCITY, PRESSURE, MAKE AND RATE CHEMISTRY EFFECTS ON ELECTRON DENSITY - COMPUTER PROGRAM GASL-TR-292 N63-13455 08-07
TG-416-A N63-11735 04-30 BOOSTER-PAYLOAD EFFICIENCY IN MISSILE DESIGN FOR	EXPLOSIVE SYSTEM FOR ACCELERATING A METAL PELLET
WINDS ALOFT DCAS-TDR-62-190 N63-12920 07-30	OF NICKEL-IRON AFCRL-63-246 A43 40 MU1734810 3H N63-13523 08-26
PAYLOAD CONSIDERATIONS FOR THE STANDARD LAUNCH	MATHEMATICAL ANALYSIS OF HYPERVELOCITY IMPACT OF
VEHICLE-1B SPACE PROBE /SLV-1B/ SLV-1B-3 N63-13158 07-31	PELLETS WITH THIN PLATES NASA-CR-50706 N63-18648 17-05
APPLICATION OF CRYOGENIC PROPULSION TO SPACE AUGUSTANIAN STATE OF THE PAYLOADS, ABLATION, RELIABILITY ENGINEERING	PENDULUM APPARATUS GRAVITY MEASURING TECHNIQUES USING PENDULUMS AFCRL-63-665 N63-20241 20-15
N63-15299 12-27 TRAJECTORY ANALYSIS OF SMALL VARIABLE-DRAG PAYLOAD EJECTED AT LOW VELOCITY FROM VEHICLE IN LOW EARTH	PENETRATION CF CRATERING CF PRACMENTATION AND THE PROPERTY AND THE PROPERT
ORBIT NASA-TN-D-1938 38 48 48 48 48 48 48 48 48 48 48 48 48 48	PENETRATION STUDIES OF SIMULATED LUNAR DUSY
EUROPEAN I - SPACE SOUNDING VEHICLE - PAYLOAD, TELEMETRY, POWER SYSTEMS AND NETWORKS & THERMAL	N63-10372 01-29 SURFACE-PIERCING HYDROFOIL STABILITY DERIVATIVES
PROPERTIES 14 MAIN 140 2011 N63-18923 18-04 ULTRAVIOLET TARGET RADIOMETER FOR INCORPORATION IN	BY FREE OSCILLATION TECHNIQUE N63-11312 03-11

PER

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DI AT

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PERFO ST

ACCELERATOR TO STUDY IMPACT AND EFFECTS UPON TARGET THICKNESS - APGC-TDR-63-2		
EFFECT OF VACUUM ON PENETRATION OF PROJECTILES INTO FINE PARTICL NASA-TH-D-1519		VICS 05-23
MICROMETEORITE PENETRATION EXPER		17.10
VII SATELLITE - 1959 IOTA	N63-14428	91-01
HYPERVELOCITY IMPACT - SPALLATION VELOCITY PROJECTILES PENETRATING TARGETS		
DEVICE FOR DIRECTLY MEASURING ST METALS SUBJECTED TO HYPERVELOCIT		ON
PENETRATION BALLISTICS FOR A SHA FORMING EXPLOSIVE DEVICE BRL-1184	N63-19876	
HYPERVELOCITY IMPACT OF SOLID PR		12th 13th
CARDE-TH-623/61	N63-20729	21-33
MEASUREMENT OF ATTENUATION FACTO FIELD STRENGTH OF SKY AND SURFACE		
PENETRATION AND SIGNAL TRANSMISS AFCAL-63-382	N63-23405	24-09
EFFECT OF PENETRANTS ON GRAPHITE UNDER ROCKET MOTOR FIRING CONDIT		DATS
ABL/X-105		24-19
ENTABORANE CF HYDRIDE		
TOXIC HAZARDS OF PENTABORANE	N63-10468	
EXPOSURE INHALATION TOXICITY OF		
AMRL-TDR-62-145	N63-12466	06-16
FULL SCALE TURBOJET ENGINE TESTI PENTABORANE-JP-4 MIXTURES AND TR AZEOTROPE PERFORMANCE	INETHYLBORA	TE
NACA-RM-E56G19	N63-12542	
FLIGHT INVESTIGATION OF PENTABOR INCH-DIAMETER RAMJET ENGINE WITH INJECTION		
	N63-12543	06-26
ENTOLITE CF EXPLOSIVE		Haift
PRODUCTS EXPANSION - PENTOLITE		
NOLTR-62-19		05-26
PHOTOGRAPHIC OBSERVATIONS OF SPH EXPLOSIONS IN AIR - PENTOLITE HE	ERICAL CONDI	ENSED
DETONATION WAVES NOLTR-62-182	N63-20338	20-23
REAK PRESSURE AT EXPLOSIVE AND B INTERACTION IN THE DIRECTION OF PENTOLITE CHARGE	ALLISTIC SHO CHARGE MOTIO	DK -
	N63-20742	
CF PROTEIN		
PERCENTILE POINTS OF ORDER STATE	N63-11666	04-20
ERCEPTION SA COLOR PERCEPTION SA EXTRASENSORY PERCEPTION SA SPATIAL PERCEPTION CF HEARING CF RECOGNITION CF STIMULATION	OUTE NOT AND	1461 43 2014 3014
CF VISION		19 49 H
EFFECTS OF SPECTRAL CONTENT AND PERCEIVED NOISE LEVEL	DURATION OF	

306360	1 Index	
NASA-TN-D-1873	N63-14430	10-2
WORD FREQUENCY EFFECT - HIGH NOISE CONDITIONS - RESPONSE BIAS MODEL	WORD IDENTIFICATION	UNDER
VOICE COMMUNICATION SYS RECOGNITION		
AFCRL-63-119	N63-17644	16-0
OBSERVER TOLERANCE OF F FUNCTION OF FORM COMPLE AND PERCEPTION		
ESD-TDR-63-135	N63-19129	18-1
CONSCIOUS TEMPERATURE P SEMSATION ELICITED BY P WARM-SENSATION RECEPTOR	ERIPHERAL RECEPTORS A	ND
IMPETUS OF SPACE PROGRA ENVIRONMENTAL PHYSIOLOG	M ON SENSORY AND	
PERCHLORATE		
VAPOR PRESSURE OF AMMON	N63-10171	01-0
BURNING RATE OF PERCHLO SOLID PROPELLANTS	RATE-POLYESTER, CASTA N63-10766	
EFFECTS OF HOISTURE ON PROPERTIES OF AMMONIUM PROPELLANTS		
JPL-TR-32-389	N63-13768	08-2
ALPHA-GAMMA ANGULAR COR PERCHLORIC ACID SOLUTIO	NS OFFIT MOODEL HORS	
ANL-6685	N63-15375	
PULSE TECHNIQUE FOR ASS COMBUSTION INSTABILITY PERCHLORATE-POLYURETHAN	OF ALUMINIZED AMMONIU	M
COMBUSTION INSTABILITY URETHANE-AMMONIUM PERCH OF ALUMINUM ADDITIVE, B	LORATE PROPELLANTS -	EFFEC
THERMOGRAVIMETRIC & DIF		LYSIS
OF POTASSIUM PERCHLORAT PA-TR-3046	N63-15622	12-0
INFLUENCE OF VERY HIGH ON DEFLAGRATION RATE OF		
THEORY OF SELF HEATING PERCHLORATE-CUPROUS OXI CALCULATIONS	DE SYSTEM - IGNITION	TIME
IGNITION AND COMBUSTION PARTICLES AT ATMOSPHERI PERCHLORATE-FUEL FLAMES	C PRESSURE IN AMMONIU	
DEFLAGRATION WAVE PROPA AMMONIUM PERCHLORATE-CO PELLETS AND THERMAL IGN	PPER CHROMITE-CARBON	DATES OF THE
PERCHLORYL FLUORIDE		TVANES
EXPOSURE OF WELDED HETA AND PERCHLORYL FLUORIDE	LS TO CHLORINE TRIFLU	
PERCUS METHOD THEORY OF CLASSICAL FLU DERIVATION OF INTEGRAL	IDS - PERCUS METHOD	
TS-51 9()/// 15-05	N63-14581	10-1
PERFECT GAS CF IDEAL GAS EQUATION FROM BLAST WAY ON BLUNT NOSED CYLINDER	E CORRELATION OF PRES	SURES

WORD FREQUENCY EFFECT - I	ORD IDENTIFICATION U	MDER
RESPONSE BIAS MODEL	N63-14808	11-20
VOICE COMMUNICATION SYSTE	M - SPEECH PERCEPTION	ON AND
AFCRL-63-119	N63-17644	16-08
OBSERVER TOLERANCE OF FOI FUNCTION OF FORM COMPLEX AND PERCEPTION	ITY - TARGET RECOGNIT	ION
ESD-TDR-63-135	N63-19129	18-14
CONSCIOUS TEMPERATURE PER SENSATION ELICITED BY PER WARM-SENSATION RECEPTORS	RIPHERAL RECEPTORS AN	10
IMPETUS OF SPACE PROGRAM ENVIRONMENTAL PHYSIOLOGY		24-16
PERCHLDRATE VAPOR PRESSURE OF AMMONIE	UM PERCHLORATE N63-10171	01-07
BURNING RATE OF PERCHLORS	ATE-POLYESTER, CASTAE N63-10766	02-26
EFFECTS OF MOISTURE ON TO PROPERTIES OF AMMONIUM PO PROPELLANTS		
JPL-TR-32-389	N63-13768	08-26
ALPHA-GAMMA ANGULAR CORRE		JH AND
ANL-6685	N63-15375	12-23
PULSE TECHNIQUE FOR ASSE COMBUSTION INSTABILITY OF PERCHLORATE-POLYURETHANE	SOLID PROPELLANT	1 1
MOTEUR MESSEL	N63-15589	12-26
COMBUSTION INSTABILITY OF URETHANE-AMMONIUM PERCHLO OF ALUMINUM ADDITIVE, BUI	DRATE PROPELLANTS - E	
THERMOGRAVIMETRIC & DIFF		YSIS
OF POTASSIUM PERCHLORATE PA-TR-3046		12-07
INFLUENCE OF VERY HIGH PI ON DEFLAGRATION RATE OF	RESSURE /1000 - 23000 PURE AMMONIUM PERCHLO N63-18536	DRATE
THEORY OF SELF HEATING AND PERCHLORATE-CUPROUS OXIDICALCULATIONS	ND APPLICATION TO AMP E SYSTEM - IGNITION 1 N63-18537	ADNIUM IME 17-26
IGNITION AND COMBUSTION (PARTICLES AT ATMOSPHERIC PERCHLORATE-FUEL FLAMES	PRESSURE IN AMMONIUM	17-26
DEFLAGRATION WAVE PROPAGE AMMONIUM PERCHLORATE-COPI PELLETS AND THERMAL IGNI	PER CHROMITE-CARBON	-01045 2045
01-70-0703011-2011	N63-20061	20-26
PERCHLORYL FLUORIDE EXPOSURE OF WELDED HETALS AND PERCHLORYL FLUORIDE	S TO CHLORINE TRIFLUC N63-13093	DRIDE 07-17
PERCUS METHOD THEORY OF CLASSICAL FLUII DERIVATION OF INTEGRAL E		
	N63-14581	10-11
PERFECT GAS CF IDEAL GAS EQUATION FROM BLAST WAVE ON BLUNT NOSED CYLINDERS FLOWS AT HYPERSONIC SPEE	CORRELATION OF PRESS IN PERFECT AND REAL DS N63-19620	SURES
PERFLUORDALKANE THERNAL DECOMPOSITION OF PERFLUOROPROPANE, PERFLUI TETRAFLUORIDE	DROETHANE AND CARBON	NES -

4

6

26

26 ND 23

26 CT 26 S 07 T/ E 26 UM

-26

-26

DE -17

-11

ES S -02

s -

NASA-TN-D-1744 MERRO - KIRING	M63-18233	17-07	PROGRAM FOR ROCKET PERFORMANCE PREDICTION NOLTR-62-211 N63-19106	
PERFLUOROBENZENE ABSORPTION SPECTRA OF BENZENE AT HIGH TEMPERATURES - KINETIC	AND PERFLUGRO	BENZENE	OPTIMAL CONTROL OF LINEAR SYSTEMS & PERFORMINISTES FOR OPTIMIZATION OF CONTROL LAW	MCE
CU-7470	N63-15203	11-07		22-06
PERFORATED PLATE METHOD FOR DEFLECTION AND STRI PERFORATED MATERIAL AND ROLLE! REACTOR TECHNOLOGY	ESS ANALYSIS I	AASSO SUESM	PREDICTED PERFORMANCE OF AIR ELECTRODES M63-23457 PERIGEE PERIGEE PROPULSION FOR ORBITAL LAUNCH OF NU	HEDRO
THIN PLATE PERFORATION INVEST	TUNIORTENADOS.	SOVIE Facto	ROCKETS NASA-TR-R-140 EASA-MYCHOS GMIRA N63-11781:	04-27
PARAMETRIC STUDY OF HYPERVELO THIN PLATES - VISCOPLASTIC FLI DIT-125-3	CITY PERFORATI		GUIDANCE OF SPACECRAFT APPROACHING EARTH AT SUPERCIRCULAR VELOCITIES ON DESIRED PERIGEE MASA-TN-D-1607 M63-12592	06-22
	ATMEAN ORG. DANS	CHECK	PERIOD EQUATION MATHEMATICAL ANALYSIS OF DIFFERENTIAL EQUAT USING PERIODIC EQUATIONS AND SET THEORY MASA-CR-50715 N63-19029	10NS 18-20
SA OPERATOR PERFORMANCE SA PILOT PERFORMANCE DEVELOPMENT AND FLIGHT PERFOR SERIES, DOUGLAS D-558-11, AND	X-15 RESEARCH	AFTAN	PERIODIC FUNCTION TREATMENT OF PERIODIC POTENTIAL PROBLEMS ANL-6647 N63-11752	04-20
TRACKING PERFORMANCE OF F-86D	N63-11761 AIRCRAFT WITH		ALGEBRA OF PERIODIC SEQUENCES WITH APPLICAT DECOMPOSITION THEOREMS JPL-TR-32-381 N63-14467	10-20
RADAR FIRE-CONTROL SYSTEM NACA-RM-A57JO1	N63-12503	06-04	PERIODICITY ALMOST PERIODICITY AND QUANTAL H THEOREM	
FLIGHT EVALUATION OF LUNAR LA USING JET VIOL TEST VEHICLE			period Akora con mues me mon M63-14750	11-23
MASA-TN-D-1649 WIND TUNNEL STUDIES OF VTOL A EFFICIENCY & FLIGHT PERFORMAN PROPELLERS, DUCTED FANS, AND	CE OF AIRCRAFT	PULSIVE	PERISCOPE CF OPTICAL INSTRUMENT DEVELOPMENT OF PERISCOPE FOR VISUAL OBSERVA AND ANALYSIS OF THRUST CHAMBER COMBUSTION M63-17001	TION
Aspin which inchis	N63-14686	10-04		HISSIN - AT-IR
HANDLING QUALITIES OF SUPERSON HIGH SPEED CRUISING FLIGHT US SIMULATORS NASA-TN-D-1888		12-10	CF IRON ALLOY	AASTY BTOAT
WIND SHEAR RESPONSE FOR MISSI PERFORMANCE LMSC-A003108 A		14-21	QUASISTATIC MAGNETIC PROPERTIES OF THIN PER FILM USING AUTOMATIC MAGNETIC TORQUE BALANC NASA-CR-50627 N63-18420	ESTOR TO
PREFLIGHT TESTING AND ANALYSI PERFORMANCE EVALUATION OF TIR		15-32	CF MECHANICAL PROPERTY GASEOUS PERMEATION THROUGH GLASS, SINGLE-CR	YSTAL
OBSERVED FLIGHT PERFORMANCES	IN MERCURY PRO N63-23204	JECT 24-32	SILICON AND GERMANIUM, AND EFFECT OF INDUCE STRESS ON PERMEATION THROUGH ALUMINA BODIES UCRL-10466 M63-11998	
PERFORMANCE CHARACTERISTICS PERFORMANCE CAPABILITY OF SIN GASEOUS NUCLEAR ROCKETS		TEX	AIR PERMEABILITY AND ELASTIC CHARACTERISTIC PARACHUTE FABRICS OF VARIOUS KINDS AND TEXT OFL-159 M63-14531	URES 13
NASA-TN-D-1579		12-11	PERMEABILITY OF PLASTIC SUBSTANCES TO WATER	TREAS
TEST PROGRAM AND PERFORMANCE SUPERSONIC WIND TUNNEL	to violitam ye !	MEDIUM -	THERESESS A EMPORESS OF TALLIAND ORA ANTAI	12-19
DYNAMIC RESPONSES OF BIOPHYSI	N63-18062 CAL SYSTEMS -		PERMEABILITY CELL AND IDMIZATION CHAMBER FO MEASURING PERMEATION OF PLASTIC FILMS BY MA VAPOR	
PERFORMANCE CHARACTERISTICS NASA-CR-50548	N63-18495	17-16	DP-792 N63-15374	12-15
ROCKET PROPELLANT PERFORMANCE	FACTORS N63-20500	20-26	PERMEABILITY OF SOME PLASTIC MATERIAL SUITA HIGH VACUUM SYSTEM CONSTRUCTION AERE-M-599 N63-15466	BLE FOR 12-19
PERFORMANCE OF SEMIELLIPTICAL SUPERSONIC SPEEDS NACA-RM-L57G15	SCOOP INLET	T. 13.14	PROCESS FOR MAKING GRAPHITE LESS PERMEABLE GASES AT HIGH TEMPERATURES GA-2318 N63-17077	LIGHT
DESIGN OF SINGLE-STAGE TURBIN AT SUPERSONIC SPEED - PERFORM NACA-RM-E58F20A	FOR ROTOR EN ANCE CHARACTER N63-20534	20-27	STATIC AND DYNAMIC UNIAXIAL TENSILE STRESS STEADY STATE PERMEATION OF HELIUM THROUGH MULTIPHASE, POLYCRYSTAL CERAMICS & FUSED SI UCRL-10755	LICA
PERFORMANCE CHARACTERISTICS O MAGNETOHYDRODYNAMIC INDUCTION NASA-TN-D-2006	GENERATOR	21-24	PEROXIDE TEST OF DIVERGENT EJECTOR, JET EXHAUST FROM TURBOJET SIMULATOR	
PERFORMANCE PREDICTION STANDARDIZED THERMODYNAMIC DA	\$4-50ax-845	A4 2284	MASA-TH-X-165	09-02

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REGENERATIVE HYDROGEN PEROXIDE FUEL CELLS USING SOLAR CELLS FOR BOTH PRIMARY AND REGENERATIVE POMER No.3-14137 09-06	MAINTENANCE & RELIABILITY - PERSONNEL REQUIREMENT: N63-17277 15-1
CATALYST BEDS FOR 98-PERCENT-CONCENTRATION	MANPONER PREDICTION TECHNIQUE VALIDITY - PERSONNE SUBSYSTEMS
HYDROGEN PEROXIDE DECOMPOSITION NASA-TN-D-1808 N63-17548 16-07	TDR-169/3741-08/TN-1 N63-20142 20-0
CATALYTIC DECOMPOSITION OF FORMALDEHYDE AND HYDROGEN PEROXIDE - CATALYTIC HYDROGENATION OF	TECHNICAL MANUAL UTILIZATION AND ADEQUACY AT OPERATIONAL BALLISTIC MISSILE SITES - PERSONNEL SUBSYSTEM
QUINONE ON PLATINIZED PLATINUM ELECTRODES AFCRL-63-632 N63-19410 19-18	TDR-169/3741-08/TN-2 N63-20143 20-0
EXPLOSIVES GENERATING CONDENSABLE PRODUCTS - ALUMINUM-LITHIUM PERCHLORATE, ALUMINUM-HYDROGEN	SOVIET BIOASTRONAUTICS AND BIOTECHNOLOGY FACILITIES, PROGRAMS, PERSONALITIES AID-P-63-95 M63-20253 20-16
PEROXIDE NOLTR-63-12 N63-20992 21-26	MULTIPLE USES OF FOOD, WATER, AND PERSONNEL IN MANNED SPACE FLIGHT - AEROSPACE MEDICINE
FAR INFRARED SPECTRUM OF TORSIONAL OSCILLATION	M63-20574 20-10
OF HYDROGEN PEROXIDE AFCRL-63-890 N63-22987 23-23	CHECKOUT AND MAINTENANCE TRAINER - DEVICE FOR RESEARCH ON PROBLEMS OF ELECTRONIC MAINTENANCE AND
PERSHING MISSILE USE OF ENCODERS IN MISSILE AZIMUTH ALIGNMENT	TRAINING & EVALUATION OF PERSONNEL AMRL-MEMO-P-35 N63-23159 24-0
SYSTEMS RG-TR-62-8 N63-12371 06-22	DESIGN OF BIOLOGICAL IRRADIATION FACILITY JANUS FOR STUDY OF BIOLOGICAL AND GENETIC EFFECTS OF
REDUCTION OR ELIMINATION OF AIR CONDITIONING IN PERSHING GUIDANCE AND CONTROL COMPARTMENT	RADIATION ON PERSONNEL ANL-6745 N63-23570 24-23
RG-TR-63-4 N63-12997 07-22	
PERSHING MOTOR CASE CLOSURE FROM 18 PCT. NICKEL- COBALT-MOLYBDENUM MAR-AGING STEEL - AIRFRAME	PERT PROJECT CF MANAGEMENT PLANNING USES OF MONTE CARLO METHOD IN PROGRAM EVALUATION
MATERIALS W-G-RD-62-156 N63-13654 08-34	AND REVIEW TECHNIQUE - PERT PROJECT RM-3367-PR N63-15702 12-20
ATMOSPHERIC ENVIRONMENT FOR FLIGHT OF PERSHING	PERTURBATION
MISSILE-351 RR-TR-63-2 . M63-19748 19-21	SA PLASMA PERTURBATION SA SATELLITE PERTURBATION
ENVIRONMENTAL TEST ON GUIDANCE SYSTEM OF PERSHING	DEVELOPMENT OF LUNAR AND SOLAR DISTURBING FUNCTIONS FOR A CLOSE SATELLITE
MISSILE RT-TR-63-4 N63-22609 23-22	NASA-TN-D-1126 N63-10494 01-27
VIBRATION TEST OF PERSHING HISSILE SYSTEM	GUIDANCE PERTURBATIONS FOR A LOW-THRUST MARS ORBIT MISSION USING SNAP-8
TACTICAL SHIPPING AND STORAGE CONTAINERS RT-TR-63-6 N63-23699 24-04	NASA-TN-D-1433 N63-10734 02-22
PERSONALITY	PERTURBATION OF HYPERBOLIC ORBIT BY OBLATE PLANET AND ESCAPE HYPERBOLA FROM EARTH
CF HUMAN BEHAVIOR CONFINEMENT EFFECT ON HUMAN BEHAVIOR AND	JPL-TR-32-131 N63-15281 12-29
PERSONALITY - TOLERANCE TO RESTRICTION OF MOVEMENT N63-18947 18-14	SMALL PERTURBATIONS IN HYPERSONIC FLOW - THEORY AND CALCULATION BY SHOCK EXPANSION METHOD - FLOW OVER BLUNT-NOSED BODY N63-15359 12-11
RELATIONSHIPS BETWEEN HUMAN ABILITY TO ENDURE	
PAIN & PERSONALITY, & SENSORY DEPRIVATION NASA-TN-D-2113 N63-20892 21-17	CRITICAL INCLINATION THEORY OF EARTH SATELLITES - EXTENSION TO CASE OF ASYMMETRICAL POTENTIAL OF MAIN BODY
PERSONNEL CF MANAGEMENT	MASA-TM-X-50238 N63-19945 19-29
CF MANPOWER SAFETY OF PERSONNEL ENGAGED IN DIAGNOSIS AND	EARTH SATELLITE LIFETIMES - EFFECT OF ALTITUDE, ORBIT-PLANE INCLINATION, AND PERTURBATION FORCES
TREATMENT OF THYROID GLAND BY IODINE-131 N63-12392 06-16	RM-3700-PR N63-21323 21-32
QUALITATIVE AND QUANTITATIVE PERSONNEL REQUIREMENT INFORMATION /QQPRI/ - USES, CONSTRAINTS, DATA, AND DECISION REPORTS	RAREFIED GAS DYNAMICS - PERTURBATIONS OF AMBIENT MEDIUM BY MOTION OF SATELLITE OR HYPERVELOCITY VEHICLE N63-21588 22-29
MRL-TDR-62-4 N63-13146 07-01	PERTURBATIONS IN THE ORBIT OF THE MOON N63-21616 22-29
PERSONNEL DECISION THEORY DEDUCED FROM HUMAN AS TRACKING OPERATOR	SPECTRAL BAND ANALYSIS OF STRONTIUM HYDRIDE
JPL-TR-32-391 N63-13451 08-14	MOLECULES SHOWING MULTIPLE PERTURBATIONS N63-21747 22-23
LIQUID HYDROGEN - DANGERS OF EXPLOSION AND OTHER RELATED SAFETY HAZARDS TO PERSONNEL	PERTURBATIONS OF EQUATORIAL SATELLITES DUE TO
BMR1-5707 N63-14981 11-13	ELLIPTICITY NASA-CR-51555 N63-22030 22-32
OXYGEN SUPPLY FROM SPACE MINERALS FOR PERSONNEL SUPPORT N63-15270 12-16	CALCULATION BY MOMENT TECHNIQUE OF PERTURBATION OF
CRITERIA FOR DESIGN AND OPERATION OF CLEAN ROOMS	GEOMAGNETIC FIELD BY SOLAR WIND N63-22874 23-12
FOR PRECISION INSTRUMENTS - ENVIRONMENTAL CONTROL, AIR MONITORING, PERSONNEL PRACTICES	PERTURBATION ANALYSIS
N63-16208 13-10	PERTURBATION ANALYSIS OF SATELLITE ORBIT PLANETARY POSITION - VELOCITY EPHEMERIDES
F.A.A. PERSONNEL - DEPLOYMENT ORGANIZATION COST N63-16844 14-10	PERTURBATIONS ARS PAPER-2602-62 N63-11250 03-05

2 F 2

5

GENTLE PERTURBATIONS - MATHEMAT	N63-11622	04-20	COMPUTER PROGRAM FOR PLANETARY PERTURBATION COMPUTATIONS USING MANSEN THEORY NASA-TN-D-1898 N63-19371 18-05
SHALL PERTURBATIONAL ANALYSIS O IN INVISCID, INCOMPRESSIBLE FLO		04-11	PERTURBATION EQUATIONS FOR TIME-AVERAGE STATE OF THE ATMOSPHERE INCLUDING EFFECTS OF TRANSIENT
NONLINEAR LANDAU DAMPING OF DSC	SOME A SACTURE	10/983	DISTURBANCES N63-19573 19-21
BUNDED PLASMA	N63-12042	05-24	PERTURBATION TECHNIQUES FOR RANDOM VIBRATION OF LINEAR SYSTEMS 10-23
ASYMPTOTIC CONVERGENCE OF RENOR PERTURBATIVE EXPANSIONS OF PROP		ELS 06-20	PERTURBATIONS TO SATELLITE ORBITAL ELEMENTS DUE TO EARTH GRAVITATIONAL FIELD RAE-TN-SPACE-35 N63-20339 20-29
SHALL PERTURBATION MATRIX APPRO OF PARALLEL CHANNEL BOILING FLO WAPD-TM-342		VS 06-11	ORTHOTROPIC PLATE THEORY UNDER STATIC LOAD CONDITIONS - SOLUTION OF GOVERNING EQUATIONS BY PERTURBATION METHOD
LOCALIZED PERTURBATION TECHNIQUE NERGY LEVEL AND EIGENFUNCTION PERTURBED, CONJUGATED SYSTEMS -	CALCULATION A	FOR	PERTURBATIONS & TRAJECTORY OF SATELLITE SUBJECT TO GRAVITY OF ONE CELESTIAL BODY BY ACCELERATION HODOGRAPH METHOD NASA-CR-19 N63-21897 22-29
STABILITY OF ROTATING CYLINDRIC LIQUID WITH CONCENTRIC SOLID CO		07-11	SMALL PERTURBATION ANALYSIS OF STABILITY OF STEADY STATE BURNING OF POWDER IN SEMICLOSED SPACE FTD-TT-63-572/16264 N63-23385 24-13
PERTURBATION METHODS APPLIED TO RADIO MAVES FROM IONOSPHERE AFCRL-63-215	REFLECTION (07-12	PERTURBATION ANALYSIS OF NONUNIFORM AMBIENT FLON EFFECTS ON FLOW FIELDS OF HYPERSONIC TEST BODIES N63-23423 24-02
FREE OSCILLATIONS OF THE EARTH	OL OF THE PT	rest (Epzzain :	PERTURBATION THEORY
FREQUENCY - PERTURBATIONS NASA-TR-R-136		09-12	CF CELESTIAL MECHANICS PERTURBATION THEORY RULES FOR COMPUTING SELF-
RELATIONSHIPS OF RELATIVE DECAY RESONANCES IN THEORIES WITH BRO	KEN SYMMETRY	av Line	ENERGY OPERATOR IN QUANTUM STATISTICAL MECHANICS UCRL-10562 N63-13565 08-23
NYO-10260 INFRARED INTERFEROMETRY AND OPT	N63-14326 ICAL MASERS -	10-23 - VOL I	CROSS RELAXATION IN NON-ZEEMAN SPIN SYSTEMS AND UTILIZATION IN PARAMAGNETIC MICROWAVE MASERS AF-101 N63-14339 10-23
AFCRL-63-288, VOL. I	N63-14359	10-25	TIME-INDEPENDENT PERTURBATION THEORY BY GAUGE
ELASTIC SCATTERING OF NEUTRAL M BY DIELECTRIC CRYSTAL — CONSIDE WAALS FORCES AND PERTURBATION P	RATION OF VAR		TRANSFORMATIONS N63-14358 10-20 THEORY OF PERTURBATION EXPANSION OF MASSES AND ELECTROMAGNETIC QUANTITIES WITHIN UNITARY SYMMETRY
NETHOD OF CHARACTERISTIC ANALYS			N63-16523 14-24
WAVE STABILITY - PERTURBATION A AAE-62-2	NALYSIS N63-14966	11-11	PERTURBATION THEORY OF HEISENBERG ANTIFERROMAGNET N63-16570 14-23
LOCALIZED PERTURBATION ANALYSIS SYSTEMS BY USING HUCKEL THEORY CYCLIC MATRICES			DENSITY MATRIX FOR ELECTRON GAS WITH WEAK AND STRONG COUPLING — PERTURBATION THEORY FOR MOMENTUM DISTRIBUTION
ARL-63-27	N63-15310	12-23	ARL-63-87 N63-18024 16-23
NONPERTURBATIVE SOLUTION OF SMA PROBLEMS - MOLIERE FORMULA			GYROMAGNETIC AND FERROMAGNETIC RESONANCE - RELATIONSHIP OF SPECTROSCOPIC SPLITTING FACTOR TO
LNF-63/19	N63-15573	12-23	MAGNETOMECHANICAL RATIO USING PERTURBATION THEORY RADC-RAW-TH-63-6 N63-18378 17-23
SMALL-TIME BEHAVIOR OF UNSTEADY TIME DEPENDENT PERTURBATIONS	N63-15699		THREE BODY PROBLEM BY HAMILTON-JACOBI PERTURBATION THEORY - GUIDANCE SYSTEMS N63-18694 17-29
MOMENTUM EXCHANGE ON PERTURBATI MULTICOMPONENT FLUIDS MF-35	ON OF		EXCITED STATES AND ELECTRON ORBITS OF ATOMS BY
MF-35 AUTOMATED FIELD-PLOTTING OF ELE		178,87021	ARL-63-149 19 19 19 19 19 19 19 19 19 19 19 19 19
STRENGTH VERSUS POSITION MITHIN USING PERTURBATION TECHNIQUES - EE-351	RESONANT CAN	/ITY JBES 13-09	PERTURBATION THEORY APPLIED TO MOLECULAR QUANTUM MECHANICS — CALCULATION OF INTERMOLECULAR FORCES & POTENTIAL EMERGY SURFACES IN UPPER ATMOSPHERE NASA-CR-50787 N63-19674 19-07
ANALYSIS OF SINGULAR PERTURBATI	ONS OF DIFFER	RENTIAL	PERTURBATION THEORY APPLIED TO LAGUERRE FUNCTIONS
01-62-0208	N63-16351	14-20	NASA-CR-50776 N63-19947 19-23
SUPERSONIC FLOW FIELD ABOUT A BI IN UNSTEADY MOTION	N63-17067	15-20	INVERSION OF ORDINARY LINEAR DIFFERENTIAL EQUATION IN MATRIX FORM FOR APPLICATION TO CLASS OF TRAJECTORY PERTURBATION PROBLEMS
REFINEMENT OF QUASI-STEADY-STATI CHEMICAL REACTION KINETICS BY S PERTURBATION ANALYSIS NASA-CR-50226	INGULAR	ION IN	THEORY OF GENTLE PERTURBATIONS
HASA-CR-50226 PERTURBATION CONTROL FOR MIDCOU			IMM-NYU-312 N63-20721 21-23 PERTURBATION THEORY OF TWO-FIXED-CENTER PROBLEM
SPACE TRAJECTORY PROGRAM AIAA PAPER-63-222	N63-17924	16-22	LEADING TO APPROXIMATION OF THREE-BODY PROBLEM RAC-1645 R63-20760 21-29

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PERTURBATION SOLUTIONS FOR NONLINEAR PLANE WAVE - DIFFERENTIAL ACOUSTICAL EQUATIONS N63-17042 15-16 CHEMICAL COMPOUNDS USED IN RADIATION PROTECTION OF MICE - PHARMOCOLOGY AND TOXICOLOGY N63-21304 21-23 NONLINEAR LANDAU DAMPING OF OSCILLATIONS IN BOUNDED ELECTRON PLASMA - PERTURBATION THEORY NASA-CR-51825 N63-22875 23-24 ANNUAL REPORT, INDIAN INSTITUTE OF SCIENCE, 1961 TO 1962 - CHEMISTRY, PHYSICS, METALLURGY, PHARMACOLOGY, MATHEMATICS & ENGINEERING HIGH ORDER PERTURBATION THEORY USING RECTANGULAR COORDINATES - MATHEMATICAL ANALYSIS N63-18302 17-01 AIAA PAPER-63-391 N63-23065 PHARMACOLOGICAL EFFECT OF INFUSED DRUGS ON AUTONOMIC CONTROL OF CIRCULATION DURING HIBERNATION OF GROUND SQUIRRELS - ANIMAL STUDY TRAJECTORY OPTIMIZATION USING CALCULUS OF VARIATIONS AND RELATIONSHIP TO BALLISTIC PERTURBATION THEORY AAL-TDR-62-39 N63-18677 PHARMACOLOGICAL RESEARCH - HUMAN ORGANISM AND ITS LUNAR LANDING & LONG RANGE EARTH REENTRY GUIDANCE ENVIRONMENT N63-18953 BY SINGLE NOMINAL TRAJECTORY USING PERTURBATION HEMORRHAGE IN ANIMALS THAT HAVE RECEIVED ANTI-COAGULANTS - EFFECT OF STRESS ON PHARMACOLOGICAL THEORY N63-23221 24-22 SYSTEMS N63-18964 18-16 PETROGRAPHY CF GEOLOGY S35-AMINOETHYLCYSTINE TO EXAMINE FUNCTIONING 18-16 GEOPHYSICS OF THE PANCREAS N63-18965 EFFECTS OF RADIATION EXPOSURE ON ANIMALS -RADIATION SICKNESS STUDY - MEDICAL USE OF ATOMIC ENERGY & PHARMACOLOGICAL AGENTS PETROLEUM CF FUEL CF GASOLINE N63-19310 18-16 CF KEROSENE LUBRICANT PHASE PMASE
SA GAS PHASE
SA RETURN-TO-EARTH PHASE
SA TWO-PHASE FLOW
BIBLIOGRAPHY ON THE HIGH TEMPERATURE CHEMISTRY AND
PHYSICS OF GASES AND GAS-CONDENSED PHASE REACTIONS
NA3-10195 01-07 CF OIL SOVIET STUDY OF BACTERIA WHICH DAMAGE PETROLEUM AID-S-63-26 N63-13554 08-16 PETROLOGY N63-10195 01-07 CF MINERALOGY PHASE, ATTENUATION, IMPEDANCE CHARACTERISTICS OF COAXIAL TRANSMISSION LINES WITH THIN TUBULAR S PULSE FREQUENCY MODULATION /PFM/ CONDUCTORS AFCRL-62-359 HYPERVENTILATION IN MAN - CARBON DIDXIDE AND ACID-BASE TRANSIENTS AND RECOVERY FROM HYPERVENTILATION RANDOM PHASE APPROXIMATION APPLIED TO ATOMIC STRUCTURE SAH-62-52 N63-10433 01-16 UCRL-10510 N63-11136 03-23 ACTIVITY COEFFICIENTS OF HYDROCHLORIC ACID AND DERIVATION OF NETWORK FUNCTIONS FROM PHASE SODIUM CHLORIDE IN HYDROCHLORIC ACID-SODIUM **FUNCTIONS** CHLORIDE MIXTURES BASED ON PH FACTOR PIBMRI-1006-62 N63-19813 19-07 SIMULTANEOUS PHASE COMPENSATION - PART XI, RESISTIVE-ELEMENT PHASE COMPENSATOR FOR PHARMACOLOGY CF DRUG CF TOXICITY AN/SQS4 MOD 3 SONAR NEL-1148 N63-13379 08-08 MICROWAVE PHASE COMPARATOR FOR MEASURING PHASE PHARMACOLOGY AND TOXICOLOGY OF 1,1-DIMETHYL BETWEEN TWO SIGNALS OF SAME FREQUENCY HYDRAZINE N63-13709 03-16 CODING THEORY APPLICATIONS TO COMMUNICATIONS
SYSTEMS - CODE CORRELATIONS, PSEUDORANDOM CODED
RANGING SYSTEM, CODED PHASE-COHERENT COMMUNICATION RADIATION EFFECTS ON ANIMAL TISSUES AND LIFESPAN, RADIOPROTECTIVE DRUG STUDIES N63-12251 05-1 05-16 EFFECT OF SOME PHARMACOPEIAL PREPARATIONS ON RADIATION SICKNESS N63-12398 06-16 EFFICIENCY IMPROVEMENT THROUGH PHASE FOCUSING AND COLLECTOR DEPRESSION IN TRAVELING WAVE AMPLIFIERS, KLYSTRONS, BACKWARD WAVE OSCILLATORS BIOCHEMISTRY - RADIOBIOLOGY - MEDICINE BIOPHYSICS - NUCLEAR RADIATION - PHARMACOLOGY -RADC-TDR-62-470 N63-15097 TOXICOLOGY N63-12946 PHASE EQUILIBRIUM RELATIONS OF METAL CARBIDES AT ACTION OF CERTAIN PHARMACOLOGICAL AGENTS ON HIGH TEMPERATURES INTRACRANIAL CIRCULATION - CARBON DIOXIDE IN BLOOD
NASA-TT-F-160 N63-14248 10-16 CALCULATION OF PARTIAL VAPOR PRESSURE OF SULFURIC AEROSPACE MEDICINE AND BIOLOGY - BIBLIOGRAPHY ON PHYSIOLOGY, PSYCHOLOGY, PHARMACOLOGY, TOXICOLOGY, SAFETY, AND LIFE SUPPORT SYSTEMS ACID DURING VAPOR PHASE TRANSITION N63-22356 N63-15258 OPTIMUM POWER DIVISION BETWEEN CHANNEL MEASUREMENT AND INFORMATION TRANSFER FOR PHASE MODULATED RADIATION PROTECTION - PHARMACOLOGY AND TOXICOLOGY IN PROTECTION FROM RADIATION DAMAGE - CYANIDE EFFECT ON LETHAL RADIATION DOSE IN MICE COHERENT COMMUNICATIONS SYSTEMS 24-08 N63-23350

PLANET ILLUMINANCE - RANGE AND PHASE ANGLE JPL-TR-32-361 N63-13443

PHASE MEASUREMENT IN VIBRATION TESTING

PHASE ANGLE

CHEMICAL COMPOUNDS USED IN PHARMACOLOGY AND TOXICOLOGY AS RADIATION PROTECTION AGENTS - ELOF CHEMICALS ON LIFESPAN IN X-IRRADIATED MICE

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N63-16086 13-33	NASA-CR-50893 N63-18866 18-09
HASE CHANGE	AUTOMATIC SYSTEM FOR MEASURING MICROHAVE PHASE
PROPAGATIONAL PHASE VARIATION MEASUREMENTS AT VERY	SHIFT - PLASMA FLUX MEASUREMENT AFCRL-63-155 N63-19422 19-24
AFCRL-63-44 N63-13694 O8-08	PHASE-SHIFT KEYED DIGITAL DATA COMMUNICATION
ELECTRONIC SCANNING AS APPLIED TO PHASE ARRAY RADAR — ANTENNA SYSTEM RAL-TM-63-5 N63-15385 12-09	SYSTEM N63-19791 19-08 ANALYSIS OF LARGE SIGNAL TRAVELING-WAVE TUBES -
CHEMICAL REACTIONS AND PHASE CHANGES IN SUPERSONIC	PHASE SHIFT DATA FOR ELECTRON GUN & CRESTATRON RADC-TDR-63-284 N63-20827 21-23
HOT KEROSENE FLASHING IN VERTICAL TUBE -	PHASE SHIFT ANALYSIS OF PROTON-PROTON SCATTERING OF DIFFERENTIAL CROSS SECTION & SPIN-ORBIT FORCE RIFP-29 N63-20972 21-23
ROCKET COMBUSTOR N63-18589 17-11	TRANSISTORIZED POWER AMPLIFIER AND PHASE SHIFTER RADC-TDR-63-16 N63-23109 24-09
RESPONSE OF AUTOMATIC PHASE CONTROL SYSTEM TO FREQUENCY MODULATED SIGNALS AND NOISE PIBMRI-1040-62 N63-12322 05-09	FERRITE LOADED OPEN TRANSHISSION LINE - MAGNETIC PHASE SHIFT AND INSERTION LOSS
PHASE CONTROL OF POLYPHASE STATIC INVERTER N63-14169 09-06	NRL-5867 NG3-23154 24-08 PHASE TRANSFORMATION
HASE DIAGRAM HIGH PRESSURE & TEMPERATURE REACTIONS - STABILITY	PHASE TRANSFORMATION IN CALCINATION OF MITRATES OF ALUMINUM, STAINLESS STEEL, AND NICKEL-CHROMIUM ALLOYS
AND PHASE RELATIONS IN ONE-COMPONENT SYSTEMS AFCRL-63-354 N63-22654 23-11	IDD-14601 N63-13200 07-23
PREDICTION OF HIGH TEMPERATURE METALLIC PHASE	HIGH TEMPERATURE PHASE TRANSFORMATION IN BERYLLIUM OXIDE NAA-SR-7654 N63-13207 07-19
UCRL-10701 N63-22669 23-18	UPPER AND LOWER BOUNDS IN PROBLEMS OF NELTING OR
HASE ERROR PHASE ERROR BEHAVIOR OF PHASE-LOCKED LOOP TRACKING	SOLIDIFYING SLABS CU-23-62-ONR-266/20/-CE N63-14520 10-13
SYSTEM IN PRESENCE OF GAUSSIAN NOISE DETERMINED BY FOKKER-PLANCK EQUATION JPL-TR-32-427 N63-14881 11-23	ALPHA PHASE PRECIPITATE OF HEAT-TREATED B120 VCA TITANIUM ALLOY DURING MELTING
HASE SHIFT	ASD-TDR-62-534 N63-16045 13-18
GAS CELL PHASE SHIFTER USED AS OPTICAL SURVEILLANCE DEVICE	ORDERING IN NICKEL-MANGANESE PHASE TRANSFORMATION UCRL-7210 N63-16564 14-18
PHASE SHIFT OF THE HARMONIC OUTPUT OF TRIGLYCINE SULFATE AS A FUNCTION OF THE SIGN OF POLARIZATION	HIGH PRESSURE & TEMPERATURE CURVES FOR ALPHA-GAMMA TRANSFORMATION IN IRON & IRON ALLOYS ASD-TDR-62-479, PT. II N63-18637 17-18
NOLC-568 N63-11418 03-23 COMERENT OPTICAL SURVEILLANCE DEVICES	PHASE DIAGRAM RELATIONSHIPS FOR TITANIUM- ZIRCONIUM-OXYGEN SYSTEM
EOS-2230-Q-3 N63-11989 05-23 NEW SERIES FOR PHASE SHIFT IN POTENTIAL SCATTERING	ARL-63-104 N63-18794 18-18 TERNARY SYSTEM OF ALUMINUM-MAGNESIUM-LITHIUM -
NYO-10256 N63-13324 07-23	PHASE DIAGRAMS OF CROSS-SECTIONS RSIC-32 N63-20266 20-18
POWER SYSTEMS - MICROWAVE CIRCUITS, FERRITE PHASE SHIFTER, SHOCK TUBES, ELECTROLUMINESENCE AND METHYLISOCYAMATES N63-14104 09-01	METAL - MOLTEN METAL HALIDE SOLUTIONS - ELECTROLYTIC ACTIVITY, PHASE DIAGRAMS OF EQUILIBRIUM CONSTANTS, & COLORIMETRY
INFINITELY VARIABLE FERRITE PHASE SHIFTERS USED IN HIGH SPEED CONTINUOUS BEAM SCANNING AND IN	ONRL-3391 N63-20395 20-07
HICROWAVE POWER RECEPTION FROM SEVERAL ANTENNAS N63-14106 09-08	POSITRON ANNIHILATION IN CONDENSED MATERIALS - PRECISE MEASUREMENTS OF LIFETIMES AND INTENSITIES AS A FUNCTION OF TEMPERATURE NO.3-21.715 22-23
SCATTERING PHASE SHIFTS - DISTORTION AND ELASTIC COLLISION N63-14751 11-23	HIGH TEMPERATURE SINGLE CRYSTAL OBSERVATION OF
PION-PROTON ELASTIC SCATTERING - PHASE SHIFT	TRANSFORMATION ATN-64/9236/-3 N63-22133 22-25
NYO-10257 N63-14809 11-23 ULTRAHIGH FREQUENCY PHASE SHIFTER - FERROELECTRIC AFCRL-62-319 N63-15688 12-09	PHASED ARRAY GRIODED 100 KW L-BAND AMPLIFIER FOR PHASED ARRAY RADAR SYSTEM N63-12970 07-09
ELECTRON-HYDROGEN PHASE SHIFT BELOW INELASTIC THRESHOLD NASA-TN-D-1720 N63-16291 13-24	GRIDDED 100 KW L-BAND AMPLIFIER FOR USE IN PHASED ARRAY RADAR SYSTEMS W-J-63-434R15 N63-14000 09-09
MICROELECTRONICS - THIN FILM CIRCUITS AND PHASE- SHIFT OSCILLATOR N63-17365 15-06	100 KW L-BAND AMPLIFIER FOR PHASED ARRAY RADAR SYSTEMS - FOCUSING AND TRANSMISSION POWER
PHASE SHIFTS AND JOST FUNCTIONS IN S AND P WAVES OF K-PLANE - SOLID STATE PHYSICS	N-J-63-434R16 N63-16029 13-09 TRANSIT TIME EFFECTS IN PHASED ARRAYS
ARL-63-76 N63-17811 16-25	RADC-TDR-63-67 N63-16554 14-08
PHASE AND ATTENUATION CHARACTERISTICS OF VOLTAGE CONTROLLED ATTENUATOR SUITABLE FOR AUTOMATIC GAIN CONTROL	GRIDDED 100 KW L-BAND AMPLIFIER FOR PHASED-ARRAY RADAR SYSTEM W-J 63-434R19 N63-18362 17-09

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PH

PHASOTRON			JPRS-17171 N	63-11841	04-1
BNL CONFERENCE PAPERS - HIGH E SYNCHRONTRON, PHASOTRON, CYCLO BNL-767/C-36/	TRON, PLASMA	, IONS	PHONON SA ELECTRON PHONON INTERACTION PHONON SCATTERING AT LOCALIZED MOD		
PHENANTHRENE ENERGY CONVERSION OF SEMICONDU FUEL CELL APPLICATIONS - LITHI			CONDUCTIVITY OF INSULATING CRYSTAL HALIDES WITH IMPURITY CENTERS		
ZINC OXIDE, ANTHRACENE, & PHEN ASD-TDR-62-89	N63-16113	13-25	EXCITED STATE-LATTICE INTERACTION OPTICAL EXCITATION STUDY	OF F-CENTE	R -
PHENANTHROLINE SPECTROPHOTOMETRIC DETERMINATI	ON OF IRON BY	TO A STATE OF	RR-TR-63-1 N	163-14645	10-2
COMPLEXING WITH PYRIDINE & PHE COMPOUNDS RSIC-41	N63-22683	23-19	MAGNETOSTRICTIVE GENERATION OF MIC BY THIN MAGNETIC FILMS AFCRL-63-57 N	63-15659	12-2
PHENOL			MANY-PARTICLE THEORY OF INTERACTIN	G PHONONS	TN
PYROLYSIS OF PLASTICS IN HIGH	VACUUM ARC IN	RAGE	CRYSTALS	63-19730	19-2
R625D57	N63-11794	04-19	ONE-PHONON RESONANCES IN INCLASTIC	CCATTERIN	
FLEXIBLE POLYMERS AS THERMAL IN PROPELLANT ROCKET ENGINE - PHE	NOL, EPOXY, A	ND	NEUTRONS BY ANHARMONIC CRYSTALS	63-20628	20-2
FURAN RESINS DEVELOPMENT OF FLEXIBLE POLYME	N63-15876		THREE PHONON COMBINATION ABSORPTION		
INSULATION IN SOLID-PROPELLANT STUDY OF EPOXY AND PHENOL RESI	ROCKET ENGIN		PHONON INTERACTION WITH CHARGE CAR	63-22262 RIERS -	23-2
ECHANICAL MICHAEL	N63-15877	13-07	SEMICONDUCTOR TRANSPORT MECHANISM	63-23084	24-2
VISCOELASTICITY AND IMPACT SENS	SITIVITY OF		KINETIC EQUATIONS FOR ELECTRONS AN		IN
ONR-TR-RLT-60	N63-19181	18-07	SIMPLIFIED MODEL OF METAL	63-23156	24-2
PHENOL FORMAL DEHYDE FLASH PYROLYSIS OF PHENOL-FORMA	ALDEHYDE BY T	IME-OF-	PHOSPHATE		
FLIGHT MASS SPECTROSCOPY R62SD01	N42-12700	06-07	SA TRIBUTYL PHOSPHATE RADIATION PROTECTION - RADIATION E		
THERMAL DEGRADATION KINETICS OF	F CHARRING PL		THIOPHOSPHATE OXIDIZING ENZYME SYS	TEM IN RAT 63-17037	15-1
FIBERGLASS REINFORCED PHENOLFOR R61SD145	N63-13464	08-13	PHOSPHIDE		
PHENOMENON S INTERFERENCE PHENOMENON	Table at the		HIGH TEMPERATURE SEMICONDUCTOR COM GALLIUM ARSENIDE AND GALLIUM PHOSPI AFCRL-62-944		07-2
PHENYL			CRYSTAL LAMPS - LIGHT EMISSION FROM	M MINORITY	
POLYPHENYL MIXTURE ANALYSIS - E	BACKFLUSHING		CARRIERS INJECTED AT P-N JUNCTION : PHOSPHIDE	IN GALLIUM 63-14416	10-2
CHROMATOGRAPH EUR-90.D	N63-11764	04-07	GALLIUM PHOSPHIDE SEMICONDUCTOR - I	ELECTRIC A	ND
RADIATION STABILITY OF ORGANIC			ELECTRONIC PROPERTIES 05-111 No	63-20296	20-2
RADIOLYSIS YIELD OF POLYPHENYLS NEUTRON-RICH SPECTRUM OF THE SU TID-16999		04-23	INFRARED ABSORPTION IN N-TYPE GALLS ARSENIDE ALLOYS	IUM PHOSPH 63-22254	IDE - 23-1
CHROMATOGRAPHIC ANALYSIS OF POL PRODUCTS FROM REACTOR COOLANTS	YPHENYL RADI	OLYSIS	INFRARED ABSORPTION IN P-TYPE GALLE PHOSPHIDE ALLOYS	IUM ARSENI 63-22255	DE - 23-0
T10-17508	N63-13501	08-07	INJECTION ELECTROLUMINESENCE IN GAI		1101
COMPARISON OF SURFACE TENSION F FOR POLYPHENYLS - HORIZONTAL CA	PILLARY, BUB	BLE	2424224 - North McCan II (1922 213 114 114 11	63-22259	23-0
PRESSURE METHOD AND LENARD WIRE EUR-209.D	METHOD N63-13809	09-23	THREE PHONON COMBINATION ABSORPTION GALLIUM PHOSPHIDE	N BANDS IN 63-22262	23-2
THERMAL DECOMPOSITION OF ORGANI POLYPHENYLS	C COOLANTS -		PREPARATION, STRUCTURE, AND PROPER PHOSPHIDES	TIES OF	
100-16851	N63-15542	12-07		63-23732	24-19
ORGANIC COOLANTS FOR NUCLEAR RE AND POLYPHENYL COOLANTS, RADIOL			PHOSPHINE S TRIFERROCENYL PHOSPHINE		
EXPERIMENTS 1DO-16869	N63-18810	18-23	PHOSPHONITRILE	NITTED A	
HEAT OF VAPORIZATION OF DIPHENY	LS, NAPHTHAL	ENE AND	PREPARATION OF PHOSPHONITRILE HONOR AROD-1395-10	MERS 63-12216	05-0
EUR-301.D	N63-19495		PHOSPHOR CF FLUORESCENCE		
PHONEME TEST FOR SPEECH DISCRIMINATION			ELECTROLUMINESCENT WORK WITH SINGLE PHOSPHORS FABRICATED IN THIN FILM O	E CHISIAL	ACUUM
AUDIOLOGY			DEPOSITION SMIR-62-7		09-2
		3)MM			
PHONOCARDIOGRAPHY DIAGNOSIS OF MITRAL LESIONS OF COMBINED USE OF PHONO-, VECTOR-		THE	OPTICAL PROPERTIES OF LIUMOGEN - A WAVELENGTH CONVERSION	63-14374	10-2
BALLISTOCARDIOGRAPHY	1 100 131411 1 101 131416-R		PHOSPHORS - CHEMICAL AND PHYSICAL F	PROPERTIES	(FGI

-16

-25

-25

-25

-25

EFFECTS OF AMIDES ON PHOTOCHEMICAL PROCESSES AT ZINC OXIDE SURFACES - INORGANIC CHEMISTRY N63-17979 16-07
THERMONUCLEAR REACTOR FOR STUDY OF PROCESSES OF PHOTOCHEMISTRY AND RADIOCHEMISTRY AND EFFECTS OF NUCLEAR RADIATION ON SOLIDS AND SEMICONDUCTORS
AID-P-63-88 N63-20252 20-10 PHOTOCHEMISTRY IN UPPER ATMOSPHERE AND ATMOSPHERIC RADIATION N63-23549 24-12
PHOTOCHEMICAL AND SPECTRAL PROPERTIES OF CHLOROPHYLLIN AFCRL-63-800 N63-23644 24-07
REACTION OF FREE RADICAL PRODUCED BY PHOTOCHEMICAL DECOMPOSITION OF MOLECULE COMPARED TO SAME RADICAL PRODUCED THERMALLY AFCRL-63-849 N63-23750 24-07
PHOTOCONDUCTIVITY CF PHOTORESISTIVITY SEMICONDUCTING MATERIALS - PHOTOCONDUCTIVITY, DIELECTRIC CONSTANT, AND THERMOCONDUCTIVITY
PHOTOCONDUCTIVITY OF SENICONDUCTORS - ZINC-
TELLURIUM AND ZINC OXIDE N63-11970 05-25 EFFECTS OF AGING ON LEAD SELENIDE PHOTOCONDUCTIVE
DETECTORS NOLC-576 N63-12429 06-15 EFFECT OF ION BOMBARDMENT ON CARRIER LIFETIME,
PHOTOCONDUCTIVITY AND SURFACE STRUCTURE OF GERMANIUM CRYSTALS - SEMICONDUCTORS ARF-3190-6 N63-13197 07-25
GAMMA RAY PHOTOCONDUCTIVITY IN ORGANIC DIELECTRIC MATERIALS AND COMPOUNDS SCOC-2580 N63-14521 10-23
DIELECTRIC, SPECTROSCOPIC, AND PHOTOCONDUCTIVE PROPERTIES OF ORGANIC COMPOUNDS FOR SENICONDUCTORS
ARF-3142-12 N63-16112 13-25 EFFECT OF CHEMISORBED DXYGEN ON PHOTOCONDUCTIVE PROCESS IN RUTILE N63-16172 13-25
PHOTOCONDUCTIVITY AND CHEMISORPTION KINETICS FOR STANNIC OXIDE CRYSTALS N63-16257 13-25
CHARACTERISTICS OF POLYGRYSTALLINE ELECTROLUMINESCENT AND PHOTOCONDUCTIVE MATERIALS — EFFECT ON OPTOELECTRIC LOGIC AND MEMORY ARRAYS R63ELS—9 N63—18905 18—09
TRANSIENT PHOTOCONDUCTIVITY OF POLYSTYRENE AND POLYISOBUTYLENE EXPOSED TO PULSES OF NEUTRON IRRADIATION AND GAMMA RADIATION N63-18972 18-23
GAMMA RAY PHOTOCONDUCTIVITY MEASUREMENTS FOR ORGANIC DIELECTRICS - POLYSTYRENE, NYLON, POLYETHYLENE, POLYPROPYLENE, AND TEFLON SCR-526 N63-18974 18-25
PHOTOCONDUCTIVITY AND NOISE IN SINGLE CRYSTAL TELLURIUN N63-22074 22-09
PHOTOCONDUCTOR OPTIMIZING PERFORMANCE OF PHOTOCONDUCTORS AFCRL-62-927 N63-12185 05-09
INFRARED PHOTOCONDUCTOR - GERMANIUM
MAXIMIZING PHOTOCONDUCTOR PERFORMANCE - MALL EFFECT IN VITREOUS SELENIUM, CADMIUM SULFIDE
CRYSTALS AFCRL-63-145 MARCH 18-25 PHOTODECORPOSITION
PHOTOENEMICAL DECOMPOSITION OF CHLORINE MONOXIDE TIL/T-5316 N63-11169 03-07
ENERGY CONVERSION EFFICIENCY IMPROVEMENT IN DECOMPOSITION OF WATER BY SOLAR ENERGY

AFCRL-63-666			GONIOMETRIC COMPENSATION - INDEX OF BIREFRINGENT COATING	REFRACTIO	ON -
PHOTODETECTOR PROPERTIES OF PHOTODETECTORS DATA FOR COPPER OXIDE AND INC	- BLACKBODY RES	SPONSE			16-33
AND THERMISTOR BOLOMETERS NOLC-575	N63-12409		DYNAMIC, THREE-DIMENSIONAL STRESS (DISTRIBUTIO	
EFFECTS OF AGING ON LEAD SELE			PHOTOELASTIC ANALYSIS OF REINFORCES CYLINDRICAL, SPHERICAL, AND TORO-SF SUBJECTED TO INTERNAL PRESSURE		
NDL C-576	M03-12427	00-13		53-23497	24-23
PROPERTIES OF PHOTODETECTOR - FREQUENCY RESPONSE, AND NOISE NOLC-558			PHOTOELASTIC DETERMINATION OF STRES BENDING OF THIN CYLINDRICAL NOZZLES PRESSURE VESSELS	IN SPHERI	
VACUUM ULTRAVIOLET ION CHAMBE		TORS 08-15	PHOTOELECTRIC APPARATUS	mages ou	LIDH?
INFRARED PHOTODETECTORS - INC THERMISTOR BOLOMETERS, AND GE		CELLS,	SPLIT BEAM PHOTOELECTRIC SCANNER FO CHANGES IN OPTICAL DENSITY FOR MATE CENTRIFUGE		
NOLC-578	N63-13625	08-15		63-16149	13-15
RADIATION DETECTOR USING GEIG COUNTER AND CESTUM-ANTIMONY P ORO-490		12-15	CONTACT LENS PHOTOELECTRIC EYE MOVE SYSTEM FPRC/MEMO-162		
CAPCTALLY OF POTTUP AUGTORES	FETOR FOR MIRRI	F 440			
SPECTRALLY SELECTIVE PHOTODET VACUUM ULTRAVIOLET NASA-TN-0-1759		14-09	PHOTOELECTRIC APPARATUS FOR ESTABLE IDENTICALNESS OF TEXT AND ILLUSTRAT FTD-TT-62-1507/162	FION ORIGIN 63-23768	
DEVELOPMENT OF FAST SOLID STA	TE ULTRAVIOLET		PHOTOELECTRIC CELL		
ASD-TDR-62-978	N63-16404	14-23	OF ENERGY CONVERSION PHOTOELECTRONIC SCANNING OF CODED		
PROPERTIES OF PHOTODETECTORS SELENIDE, INDIUM ANTIMONIDE, AND GOLAY DETECTOR CELL		ELLS,	10 20 22 20 C	LLS FOR SOF 63-15215	
NOLC-564	N63-16668	14-06	PHOTOELECTRICITY	DETERMINE	
ULTRAVIOLET PHOTODETECTORS - CHAMBERS, PHOTOTUBES AND PHOT NASA-TN-D-1718		17-15	DIRECT ENERGY CONVERSION - ABSTRACT NO HIGH ALTITUDE ULTRAVIOLET BACKGROUN	63-11677	04-00
HOTODIODE		11111	THE SCANNING PHOTOELECTRIC EBERT SI		
PHOTOGIODE AS SENSITIVE TEMPE ILL-0-P SOLAR BLIND PHOTOGIODES HAVIN	N63-17174	15-09	AUTOMATIC CONTROL OF TRANSFER OPER/ METRIC SERVOMECHANISMS WHEN BRIGHT! OBJECTS VARIES		
IN MIDDLE ULTRAVIOLET RADIATI	ON SPECTRUM		PRIMARY ELECTRON SOURCES - PHOTOELI THERMIONIC EMISSION, ENERGY DISTRIC	ECTRIC AND	3170
PHOTODISSOCIATION OF MOLECULE		ON OF	TUNNEL DIODE CURRENT	63-16932	14-0
OPTICAL MASER AFOSR-2251	N63-15413	12-25	PHOTOELECTRIC WORK FUNCTION AND OX		PTION
MECHANICS OF MOLECULAR PHOTOD UCRL-10438	ISSOCIATION N63-18896	18-23	PROPERTIES OF NIOBIUM SINGLE CRYSTA AFCRL-62-949/SUPPL-/		15-2
HOTOELASTICITY	NA CIR KOTELIO		MIDDLE ULTRAVIOLET PHOTOELECTRIC DI EQUIPMENT FOR ROCKETS		15-2
CF STRESS PRECISION MEASUREMENT OF FRAC			PHOTOELECTRIC AND PHOTOGRAPHIC	TOMETRY OF 63-17580	
IN PHOTOELASTICITY D1-82-0165	M63-10100	01-15	VARIABLE STAR OBSERVED WITH PHOTOE PHOTOMETER AND TELESCOPE - SPECTRO	LECTRIC	
SCATTERED LIGHT PHOTOELASTICE DI-82-0202	N63-10101	01-25	No.	63-17881	16-0
APPLICATION OF PHOTOELASTICIT INDUSTRY - STRESS AWALYSIS OF	Y IN MISSILE	AINS	DECOMP CTTAN DELAN DENAM - MONTH - MONTH TO -	63-17981	16-0
PHOTOELASTICITY AND MECHANICA	STRESS MEASUR	HARA.	ABSOLUTE LIGHT INTENSITIES OF SPEC PHOTOELECTRIC METHODS - OPTICAL MA AROD-3323-2	SER APPLICA	ATION:
OF ARALDITE-B RAE-TRANS-1022	N63-14335	10-33	PHOTOELECTRIC SKY BRIGHTNESS POLAR	IMETER	
MEASUREMENT OF THERMAL STRESS TUBES DURING REPETITIVE FIRIN	IG - PHOTOTHERMO	SUN D-	AFCRL-63-809 NO. VELOCITY MEASUREMENT OF AURORAL RA	YS BY	ONTA -
ELASTIC & ELECTRIC ANALOGY ME	THODS N63-16614	14-33	PHOTOELECTRIC PHOTOMETER - AURORAL	5PECTROSCI 63-20982	21-1
PHOTOELASTIC STUDIES OF DYNAM MODULUS MATERIALS - HIGH SPEE POLARISCOPIC TECHNIQUES - STR	D PHOTOGRAPHIC	AND	PHOTOELECTRIC PHOTOMETER TO STUDY INDICATRIX AT SMALL SCATTERING ANG MEASUREMENTS IN OPTICALLY UNSTABLE AID—T—63—104	SCATTERING LES AND ATMOSPHER	NAVE TAKE
	NO3-10024	14-33	WELLOW CAMEROOK WALLES	22.242	

PHOTOELECTRIC OBSERVATIONS OF PINK HITROGEN

PHOTOELASTICITY - PLANE & CIRCULAR POLARISCOPES -

s

4-

. .

AFTERGLON N63-21946 22-11 PHOTOELECTRIC SPECTROPHOTOMETER FOR LUNAR	RADAR RECORDS, PHOTOGRAPHS FROM WHOLE-SKY CAMERAS, U-2 ATRCRAFT AND TIROS SATELLITES AFCRL-63-400 ASSESSED N63-16454 14-21
AFCRL-63-731 N63-22986 23-23	METEOR SPECTRA - MAVELENGTH - PHOTOGRAPHS
INTERNAL & EXTERNAL INTERFERENCE DURING PHOTOELECTRIC OBSERVATIONS OF METEORS FTD-TT-62-1428/, 62 N63-23631 24-05	IMAGE ORTHICON PHOTOGRAPHS OF METEORS
PHOTOEMISSION PHOTOEMISSIVE SOLAR ENERGY CONVERTER ASD-TOR-62-600 N63-10616 02-06	PHOTOGRAPHS AND ORBITAL ELEMENTS OF METEORS 14-05
PHOTOGRAMMETRY MINESALUEIG SCANT NOT MILTATERINGS - IN	FUJITA METHOD FOR TIROS SATELLITE PHOTOGRAPH RECTIFICATION AFCRL-63-670 M63-20626 20-21
CF PHOTOGRAPHY DEVELOPMENT OF AN AERIAL CAMERA WITH CELESTIAL ORIENTATION	S-58 HELICOPTER WAKE STUDIES BY PHOTOGRAPHS OF COLORED SHOKE TRAILS N63-20774 21-04
BRL-MEHO-1425 N63-10213 61-15 CONFERENCE OF SIBERIAN TOPOGRAPHERS	PHOTOGRAPHIC DATA PROCESSING BY OPTICAL NETHODS CAL-VE-1512-G-1 N63-22872 23-20
JPRS-16729 N63-10974 02-12 NUMERICAL PROCEDURES IN PHOTOGRAMMETRY N63-11345 03-12	CONTROL OF PLANE JETS BY AUXILIARY PLOWS - PHOTOGRAPHIC ANALYSIS OF WEDGE FLOW PATTERNS N69-23505 24-11
SPACE SURVEILLANCE SYSTEM EVALUATION BY A METHOD	PHOTOGRAPH INTERPRETATION
OF PHOTOGRAMMETRIC RESECTION RADC-TDR-62-442 N63-11356 03-20	LUNAR SURFACES - RADAR AND PHOTOGRAPHIC DATA - SURFACE ROUGHNESS PR-39 N63-12043 05-05
INSTRUMENTS FOR PRECISE PHOTOGRAMMETRY N63-11591 04-12	TIME ANALYSIS STUDY BY PHOTOGRAPHY OF COMBUSTION PROCESSES, GAS EXPLOSION, AND MAYE PROPAGATION IN
ANALYTICAL PLOTTER FOR MAKING CORRECTIONS ON PLATE COORDINATES N63-11592 04-12	VESSELS OF VARIABLE VOLUME USING HYDROGEN-DXYGEN N63-12265 03-26
ELECTRICAL ANALOG USE IN SKYSCREEN SYSTEM - BALLISTIC CAMERAS AND PHOTOGRAMMETRY BRL-TN-1491 N63-16716 14-20	LUNAR SELENOGRAPHY - REDETERMINATION OF LIBRATION CONSTANTS, LUNAR SPHERICITY MEASUREMENTS, MICRORELIEF PHOTOINTERPRETATION AFCRI-63-406 N63-15223 11-29
PHOTOGRAMMETRIC METHOD FOR DETERMINING TOPOGRAPHY OF LIQUID SURFACES BRL-1196 N63-17761 16-11	MATHEMATICAL ANALYSIS OF CARTOGRAPHIC PHOTOGRAPH DISTORTION CAUSED BY CONICAL SHOCK MAYES N63-15656 12-12
GEODETIC AZIMUTH SOLUTIONS BY PHOTOGRAMMETRY AFCRL-63-619 N63-19550 19-12	PLANETARY PHOTOGRAPHY - MULTICOLOR PHOTOMETRY OF
PHOTOGRAMMETRIC DETERMINATION OF AZIMUTHS OVER INTERMEDIATE DISTANCES N63-23305 24-08	THE MOON, MARS, VEMUS, AND OTHER PLANETS N63-16246 13-05
PHOTOGRAPH SA CLOUD PHOTOGRAPH ORIGIN OF THE LUNAR WALLED PLAIN, PTOLEMAEUS	AUTOMATIC PROCESSING OF TIROS METEOROLOGICAL SATELLITE DATA - MEATHER MAPPING BY PHOTOGRAPH ANALYSIS AFCRL-TDR-63-243 N63-16265 13-21
N63-10997 02-05 HEAT-WAVE EFFECTS ON PHOTOGRAPHS NAVWEPS-7773 N63-11046 03-15	PHOTOGRAPHIC STUDY OF ORIGIN AND DEVELOPMENT OF FATIGUE FRACTURES IN AIRCRAFT STRUCTURES RAE-R-STRUCT-267 N63-17198 15-33
COMPARISON OF ATMOSPHERIC VERTICAL MOTION CALCULATIONS INCLUDING TIROS CLOUD OBSERVATIONS AFCRL-62-1094 N63-11965 05-21	FILM ANALYZER - SCANNING DEVICE FOR PHOTOGRAPHIC
MIMBUS SATELLITE DATA PROCESSING SYSTEM N63-12009 05-20	CHAMBER PICTURES CERN-63-10 CORRELATION OF PULSED RADAR & PHOTOGRAPHIC DATA -
NIMBUS SATELLITE DATA PROCESSING OF CLOUD PICTURES N63-12010 05-20	SURFACE GEOMETRY NASA-CR-50536 STHE MASSOTTH 1 N63-10322 17-08
COMPUTATION OF SELENOGRAPHIC COORDINATES OF LUNAR PHOTOGRAPHS USING CONIC PROJECTION	GUIDE TO CLOUD PHOTOGRAPHS INTERPRETATION FROM TIROS WIDE-ANGLE PICTURES AFCRL-62-680, SUPPL. 1 M63-18782 18-21
N63-12041 05-05 EVOLUTION AND NOTION OF COLD FRONT AND ITS WEATHER SYSTEMS AS SHOWN BY METEOROLOGICAL	IMAGE ENHANCEMENT ALO TO RECOMMAISSANCE OR PHOTO INTERPRETATION - VISUAL PERCEPTION N63-19250 18-14
SATELLITE PHOTOGRAPHS AFCRL-62-867 N63-12081 05-21 LUMAR GEOLOGY - ANALYSIS OF LUMAR PHOTOGRAPHS	MILITARY SIGNIFICANCE OF TARGET IDENTIFICATION IN AERIAL RECONNAISSANCE - IN-FLIGHT INTERPRETATION BY VISUAL PERCEPTION NA3-19251 18-14
HIGHOSTRUCTURES OF COMPLEX MORPHOLOGY OBSERVED IN	PICTORIAL DISPLAY FOR AERIAL RECOMMAISSANCE - PHOTOGRAPH INTERPRETATION BY VISUAL PERCEPTION
PREPARATIONS OF CARBONACEOUS CHONDRITES HADE UNDER STERILE CONDITIONS N63-14203 09-29	HUMAN PSYCHOLOGICAL FACTORS IN IMAGE
PHOTOGRAPHY OF THE MOON FROM SPACE PROBES JPL-TR-32-347 N63-14677 10-29	INTERPRETATION - PHOTOGRAPHIC IMAGES - VISUAL PERCEPTION PROBLEM N63-19256 18-14
CLOUD COVER RESEARCH DATA - VISUAL OBSERVATIONS,	PHOTOGRAPHIC STUDIES OF HORIZON PATTERNS FROM HIGH

ALTITUDES	TY CICL TRANSPLE		CF PHOTOGRAPHETRY . CF PHOTOMICROGRAPHY	SERVICE S
INTERPRETATION OF X-RAY PHO	TOGRAPHS OF SUN N63-19702		CF RADIOGRAPHY DEVELOPMENT OF AN AERIAL CAMERA WITH CEL ORIENTATION	LESTIAL
AIRCRAFT PHOTOGRAPHIC DATA STORMS PROJECT - 1962	FROM NATIONAL SE	VERE		213 01-15
NSSP-16 ROSTON IN THE ASSE	N63-19732	19-21	INTERNAL BODY MOVEMENTS RESULTING FROM APPLIED SINUSOIDAL FORCES OBSERVED BY X	-RAY DEVICE
PHOTOGRAPHIC APPARATUS NIMBUS SATELLITE AUTOMATIC SUBSYSTEM — GEOGRAPHIC POSI			AMRL-TDR-62-81 N63-10- NUMERICAL PROCEDURES IN PHOTOGRAMMETRY	PHOTOGRALSS
TRACKING - DATA REDUCTION ARA-T-9219-1	N63-17984	16-32	COMPENSATION FOR IMAGE DISPLACEMENT IN F	345 03-12
ARCTIC METEOROLOGY PHOTO PR EXPERIMENT FOR CLOUD COVER	PHOTOGRAPHS		AERIAL PHOTOGRAPHY BY A ROTATING MIRROR CAMERA ATTACHMENT	ASSEMBLY
NASA-TN-D-1449			JPRS-16853 N63-114	
PERCEPTION OF TWO COLOR MIX F-2022-1			ANALOGY OF CHARACTERISTICS OF REPRODUCTI TELEVISION AND PHOTOGRAPHY JPRS-16930 N63-114	
PHOTOGRAPHIC MEASUREMENT			LASER AS A LIGHT SOURCE FOR PHOTOGRAPHIC	LIGHT
AIR TRAFFIC CONTROL IN AIRP PHOTOGRAPHIC RECORDING OF R ACCURACY OF AIRCRAFT GUIDAN	ADAR IHAGES, AND		SCATTERING FROM POLYMER FILMS ONR-TR-46 N63-11:	555 04-23
PHOTOGRAPHIC MEASUREMENT OF	N63-15318	10.1	SATELLITE TRACKING WITH A CAMERA - CLOUR MOON, AND FILM PROCESSING AS INFLUENCING ESD-TDR-62-336 N63-122	
WALLED PLAIN PTOLEMAEUS	N63-16190		ROTATING MIRRORS WITH HIGH SPEED FRAMING	
CORRECTION OF PHOTOGRAPHIC	MEASURED BY EICH		FRAME PHOTOGRAPHY	773 11-15
PHOTOMETERS - BACKGROUND EF	N63-16684	14-29	GEOCENTRIC COORDINATES OF OBSERVATION SI PHOTOGRAPHIC PLATE AND ORBITAL DATA	ITES FROM
PROPELLANTS FOR CROSSED FIE ACCELERATION - PLASMA TEMPE				968 11-12
MEASUREMENT NSL-62-149-2			PHOTOGRAPHIC TRACKING OF HYPERSONIC TRAI	A SA SA
PIEZOPHOTOGRAPHY FOR MEASUR PRESSURE WAVES			AFESD-TDR-62-117 N63-150 STUDY OF DYNAMIC MORPHOLOGY OF POLAR AUR	RORA
CALIBRATION OF PHOTOGRAPHIC	MEASUREMENTS		USING ALL-SKY-PHOTOGRAPHY N63-152	293 12-12
R-53 PHOTOGRAPHIC OBSERVATIONS OF	N63-20041	1111	MAGNETOELASTICITY, ACOUSTICS OF SILICON O	
EXPLOSIONS IN AIR - PENTOLIS DETONATION WAVES	TE HEMISPHERE		LASERS FOR HIGH SPEED PHOTOGRAPHY, AND A NOLTR-62-125 N63-158	802 13-25
NOLTR-62-182	N63-20338	20-23	ALUMINUM OXIDE IN ATMOSPHERE - SCATTERIN PHOTOGRAPHIC TRACKING	IG AND
PHOTOGRAPHIC DOSIMETRY /NUCL ANNOTATED BIBLIOGRAPHY			AFCRL-63-466 N63-164	
LUNAR EXPLORATION CONFERENCE	- RADAR ECHO, A	ADAR	PHOTOELASTIC STUDIES OF DYNAMIC STRESSES IN MODULUS MATERIALS — HIGH SPEED PHOTOGRAPHIC POLARISCOPIC TECHNIQUES — STRUCTURAL DYNAMI	
DATA INTERPRETATION, PHOTOGRAPH VOLCANICS, & MANNED EX	RAPHIC PHOTOMETRY	* () () () () () () () () () (N63-166	COA NOVE CO
PHOTOGRAPHIC MEASUREMENTS OF	N63-21362		PHOTOGRAPHIC TRACKING OF METEORITE TRAJE N63-166	
EXPLOSIONS B-2596			METEOR PHOTOGRAPHY AND VISUAL OBSERVATION N63-166	
BANSHEE PROJECT PHOTOGRAPHIC		23-12	PHOTOELECTRIC AND PHOTOGRAPHIC PHOTOMETR	
EG4G-8-2602	N63-22630	23-12	GALACTIC CLUSTER NGC 6649 N63-175	
PHOTOGRAPHIC RECORDING ATMOSPHERIC PERTURBATIONS RE	LATED TO GEOMAGN	ETIC	OPTICAL SATELLITE TRACKING PROGRAM - PHO TRACKING, MODNWATCH PROGRAM, COMMUNICATI	IONS
DISTURBANCES FROM ANALYSIS OF OF EXPLORER IX SATELLITE BY NASA-CR-51328	REDUCED PHOTOGRA	PHS	NASA-CR-50225 N63-181 ATMOSPHERIC RADIATION - AERIAL PHOTOGRAP	1001
ULTRA-RAPID PHOTOGRAPHIC HET	HOD USING LUMINO	Charles II	CONTRAST ATTENUATION BY THE ATMOSPHERE N63-184	
RSIC-67	N63-22612	23-27	PENETRATION OF THUNDERSTORMS BY AIRCRAFT	FLYING AT
PHOTOGRAPHY SA LUNAR PHOTOGRAPHY	THE RESERVE		SUPERSONIC SPEEDS — RADAR PHOTOGRAPHS AN LOADS IN THREE STORMS OF 1961 ROUGH RIDE NSSP-15	R
SA SATELLITE PHOTOGRAPHY SA SCHLIEREN PHOTOGRAPHY			ALCAR BURTOCKLOUG AND CHET LOADS IN THE	SPACE TOWN AND
SA STEREOPHOTOGRAPHY			OF 1961 ROUGH RIDER - PILOT PERFORMANCE N63-191	marana T.
SA X-RAY PHOTOGRAPHY			IMAGE QUALITY OF AERIAL PHOTOGRAPHY - VI	osci polici
CF ELECTRO-OPTICS CF PRACTOGRAPHY			PERCEPTION N63-192	

CE 16

23

23

10 IN

15

12

30

12

25

12

05

05

05

21

21

21

13

PHOTOLYSIS

PHOTOLYTIC AND THERMAL DISSOCIATION CHEMISTRY OF

FIVE-DIMENSIONAL WEATHER RAD SCALE PHOTOGRAPH DISPLAY AFCRL-63-449	NAR - CAPPI AND GREY	NITROGEN-FLUORINE COMPOUN EXP-223/3
AIRCRAFT PHOTOGRAPHIC DATA F STORMS PROJECT - 1962	ROM NATIONAL SEVERE	COMBINED RETARDING POTEN PHOTOELECTRONS AND ENVIR IN UPPER ATMOSPHERE
NSSP-16 TIROS SATELLITE PHOTOGRAPHIC	N63-19732 19-21	PHOTOELECTRONS FROM SOLA
OCEAN TROPICAL CYCLONES AFCRL-63-493	N63-19839 19-21	SPECTROSCOPY, PHOTOLYSIS COMPRESSION SHOWING DISS
EFFECTS OF NATURAL SPACE RAD SYSTEMS LIFE - PHOTOGRAPHIC D2-90037	FILM DEGRADATION .	NITROGEN FLUDRIDE COMPOU EXP-223/5 PHOTOLYSIS OF NITROGEN D
COMPARISON OF PHOTOGRAPHIC, TELEVISION RESOLUTIONS - DEF R62XP-4	CATHODE RAY TUBE, AND	ULTRAVIOLET SPECTRUM MASA-CR-52016
CALIBRATION OF PC-1000 CAMER BRL-MEMO-1468		PHOTOMAGNETOELECTRIC DETECT PHOTOMAGNETOELECTRIC EFF GERMANIUM SEMICOMOUCTORS AFCRL-63-226
NATURAL RESOURCE EVALUATION PHOTOGRAPHY - HYDROLOGICAL S JPRS-21163	USING AERIAL STUDIES N63-22436 23-12	PHOTOMECHANICS PHOTOMECHANICAL LAW FOR POLYBUTADIENE
PHOTOGRAPHING ENTIRE FIELD C AFCRL-63-685	OF SEISHIC WAVE N63-22468 23-12	ARA-T-9226-1
SPECTROZONAL FILM SN-2 UNDER PHOTOGRAPHY OF NATURAL OBJEC FTO-TT-63-797/162	CONDITIONS OF TS N63-23393 24-15	PHOTOMETER SA SPECTROPHOTOMETER OF IMPRARED SPECTROPHOTOME DIRECT MEASUREMENT OF IO
RESTORATION AND EXAMINATION	OF COORDINATE	LUNAR AND PLANETARY LABO
MEASURING MACHINE FOR USE WI PHOTOGRAPHY FTO-TT-62-744/16264		INFRARED SPECTRA OF VENU SPECTROMETER
PHOTOIONIZATION IONIZATION UPSTREAM OF STROM RADIATION FROM HOT NONEQULE	IG SHOCK WAVE BY	DIGITALIZED MULTI-COLOR REDUCTION SYSTEM FOR STE TO 5.0 MICRON REGION
DOWNSTREAM OF SHOCK CH-1020	N63-12604 06-11	STELLAR & PLANETARY OBSE MADE BY PORTABLE INFRARE
CERAMIC PHOTOIONIZATION CHAP IN VACUUM ULTRAVIOLET WAVELE NASA-TN-D-1715	NGTH REGION	UTILIZING MERCURY DOPED
PRECURSOR SIGNALS - PHOTOION DIFFUSION - SPECTROMETRIC DE	TERMINATION	PHOTOMETERS IN TANDEM BA SOLAR AND NEAR-SUN LUMIN ALTITUDE — GRAPHS AND TA AFCRL-63-617
PLANETARY AERONOMY - ABSOLUT ULTRAVIOLET RADIATION MEASUR TECHNIQUE	RED BY PHOTOIONIZATION	INSTRUMENTATION USED IN ATMOSPHERIC OPTICS - LIG POLARIZATION - PHOTOMETE
GCA-1K-63-3-N	N63-17316 15-07	A10-P-63-92 PHOTONULTIPLIERS FOR ROC
ULTRAVIOLET PHOTODETECTORS - CHAMBERS, PHOTOTUBES AND PHO NASA-TN-D-1718		RADIATION PHOTOMETER
PHOTOIONIZATION CROSS-SECTIO	TO MAKE THE SHARP THE STATE OF	KIRUNA GEOPHYSICAL DBSER AFCRL-63-987
FAR-FLOW MODEL OF PRECURSOR AHEAD OF HYPERSONIC SHOCK FR	IONIZATION PROFILES RONT - PHOTOIONIZATION N63-21204 21-11	PHOTOMETRY SA ELECTROPHOTOMETRY SA SPECTROPHOTOMETRY CF SPECTROSCOPY CORRELATION OF VARIATION
PHOTOIONIZATION PRODUCTS IN SPECTROMETER, FLASH PHOTOLYS FOR EXTREME ULTRAVIOLET & FI	SIS APPARATUS DEVELOPED	RATES WITH SIMULTANEOUS ALTITUDE X-RAY BURSTS
AFCRL-63-884	N63-22025 22-07	STRUCTURE AND PROPAGATION
PHOTOIONIZATION AND PHOTOION ION-ATON REACTIONS AFCRL-63-877	TATEDA UNE DA MINERT	TEMPERATURE EFFECTS IN P ASTRONOMICAL PHOTOMETRY
PHOTOLUMINESCENCE DETERMINATION OF SURFACE TEP EMISSIONS FROM THIN PHOTOLUM	PERATURES USING	PREFLIGHT ANALYSIS AND L RANGER SPACECRAFT TV SYS JPL-TR-32-384
RADIOPHYSICS - MEASUREMENT (CHEMICAL ANALYSIS OF BIR
QUANTUM YIELD OF LIQUID SCIP		PHOTOMETRY OF INFRARED S

NDS N63-14485 10-07 TIAL ANALYSIS OF ONMENTAL CHARGED PARTICLES N63-19689 19-15 R EXTREME ULTRAVIOLET N63-19697 19-12 AND ADIABATIC OCIATION CHEMISTRY OF N63-21689 22-07 IOXIDE IN VIOLET AND N63-23619 24-07 ECT IN GRADED-GAP N63-13682 08-25 STEREOSPECIFIC N63-21865 22-19 NOSPHERIC TEMPERATURE N63-10435 01-12 RATORY - PHOTOMETER, S, AND STELLAR N63-14008 09-05 PHOTOMETER AND DATA LLAR OBSERVATIONS IN 0.35 N63-14009 09-15 RVATIONS AT 10 MICRONS D TELESCOPE & PHOTOMETER GERMANIUM DETECTOR LLOON FLIGHTS TO MEASURE BLES N63-18726 17-12 SEARCHLIGHT TECHNIQUES -HT SCATTERING TECHNIQUES RS N63-19294 18-15 KET-BORNE ULTRAVIOLET N63-20055 21-09 LYATORY AURORAL PHOTOMETER N63-22641 23-12 VELOCITY MEASUREMENT OF S OF EXPLORER VI COUNT VISUAL AURORAS AND HIGH-N63-11789 04-28 N OF TURBULENT BUNSEN N63-11972 05-26 PHOTOMULTIPLIERS AND N63-13042 07-05 UNAR PHOTOMETRIC NODEL -TEN N63-13449 08-29 IRUBIN & OTHER TETRA-863-13532 08-07 PECTRA OF VENUS & CARBON DIOXIDE CONTENT OF ATHOSPHERE H63-14010 09-05

Pi

PI

P

STUDY OF REFLECTION LAWS OF A VARIETY O WITH APPLICATION OF THEIR PROPERTIES TO SURFACE	LUNAR	PHOTOMICROGRAPHY MEASUREMENTS OF GRAIN DENSIT OF IONIZED PARTICLE TRACKS IN NUCLEAR EMULSION USNRDL-TR-591 N63-12481	
CRSR-139 N63-14	087 09-29	PHOTOMULTIPLIER	
PHOTOMETRIC STUDY OF ASTEROID, LUNAR MA SPECTROPHOTOMETRY OF STARS AND PLANETS, ASTRONOMICAL PHOTOMETRY N63-15	AND	CF AMPLIFIER CF ELECTROM TUBE CF PHOTOTUBE	
PHOTOMETRIC STUDY OF ASTEROIDS - LIGHT- M63-15		PHOTOMULTIPLIER READ-OUT FOR BAUSCH & LOMB 1.: METER STIGMATIC SPECTROSCOPE TOR-169/3210-06/TR-1 N63-12279	5- 05-15
PHOTOMETRIC STUDY OF ASTEROIDS N63-15	079 11-05	TEMPERATURE EFFECTS IN PHOTOMULTIPLIERS AND ASTRONOMICAL PHOTOMETRY N63-13042	07-05
SURFACE PHOTOMETRY OF PLANETARY NEBULA, AND INTERSTELLAR MATERIAL - ISOPHOTES B MICRODENSITOMETER N63-15	Y	LOW-PRESSURE MERCURY ARC FOR ULTRAVIOLET CALIBRATION N63-13228	07-23
MAYELENGTH DEPENDENCE OF POLARIZATION - ASTRONOMICAL PHOTOMETRY OF INTERPLANETA N63-15	RY MATTER	PROTON AND NEUTRON ANGULAR DISTRIBUTIONS OF TO CARBON-13/NITROGEN-14 AND CARBON-13/CARBON-14 REACTIONS BETWEEN 3.2 AND 4.1 MEY NYO-10252 N63-13321	HE 07-23
RANGER PROJECT - TELEVISION SYSTEM ANAL LUNAR PHOTOMETRIC MODEL - RANGERS III, SPACE PROBES	IV AND V	DEVICE FOR MEASURING ION CURRENTS IN MASS SPECTROMETER CIRCUITS - PHOTOMULTIPLIER DYNODI FTO-TT-62-1529/16264 N63-13585	E 08-07
JPL-1R-32-384/KEV-/ N63-15	7 58 y 30 9 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TIME-RESPONSE OF TRANSMISSION-TYPE DYNODE USI	NG
THEORETICAL PHOTOMETRIC PROPERTIES OF L SURFACE - FUNCTIONS FOR DIFFERENTIAL & BRIGHTNESS		POTASSIUM CHLORIDE FOR HIGH SPEED COUNTING N63-13592	08-23
CRSR-138 N63-15	936 13-29	METHOD FOR SUPPRESSING PHOTOMULTIPLIER NOISE UCRL-6886, REV. 1 N63-17537	16-09
PLANETARY PHOTOGRAPHY - MULTICOLOR PHOTO THE MOON, MARS, VENUS, AND OTHER PLANET: N63-16:	S	PHOTOMULTIPLIERS FOR ROCKET-BORNE ULTRAVIOLET	21-09
TEN MICRON PHOTOMETRY OF STARS NASA-CR-50143 N63-17	028 15-15	SOLAR BLIND PHOTOMULTIPLIERS FOR THE ULTRAVIOI RADIATION SPECTRUM - METALLIC CATHODES N63-20857	LET 21-23
INFRARED PHOTOMETRIC CONTOUR MAPPING OF VENUS NASA-CR-50149 N63-17		PHOTOMULTIPLIERS FOR ULTRAVIOLET SPECTRUM	21-09
PHOTOMETRIC OBSERVATIONS OF STARS AND S' CLUSTERS N63-17:	TAR	DETERMINING GUIDANCE ACCURACY OF AIRBORNE HISS USING PHOTOMULTIPLIERS AND FILTERS OF ULTRAVIO	SILES
PHOTOELECTRIC AND PHOTOGRAPHIC PHOTOMETI GALACTIC CLUSTER NGC 6649 N63-17:		LIGHT RADIATION N63-20861 (21-12 TS
SCOTTISH ASTRONOMICAL OBSERVATORY - THRI PHOTOMETRIC & SPECTROPHOTOMETRIC OBSERVA		WITH PHOTOMULTIPLIER ORNL-3486 N63-21470	22-23
INSTRUMENTATION N63-17 VARIABLE STAR OBSERVED WITH PHOTOELECTR	719 16-05	TIME RESOLUTION CHARACTERISTICS OF PHOTOMULTIN AID-T-63-112 N63-22887	PL I ER
PHOTOMETER AND TELESCOPE - SPECTROGRAM N63-17		PHOTON CF ELEMENTARY PARTICLE CF LIGHT	
OBSERVATIONAL ASTROPHYSICS FROM ROCKETS PHOTOMETRY AT 1300-A N63-197		CF X-RAY PLASMA ENGINES - ION AND PHOTON ROCKET ENGINE:	s 01-27
NUCLEIC ACID CONTENT OF MERVE CELLS IN V FUNCTIONAL STATES FROM CYTOPHOTOMETRIC I JPRS-20868 N63-20	HETHODS	ELECTRONIC STRUCTURE OF SOLIDS DETERMINED FROM	
VELOCITY MEASUREMENT OF AURORAL RAYS BY PHOTOELECTRIC PHOTOMETER - AURORAL SPECT	TROSCOPY		02-25
NAVIGATION OF LUNAR VEHICLES - OPTICAL 1		INTERFERENCE EFFECTS IN THE TOTAL CROSS SECTION OF PAIR PRODUCTION ON CRYSTALS AND ITS DEPEND ON POLARIZATION OF GAMMA RAYS	
LUNAR PHOTOMETRY LYMAN ALPHA AND THE LUI AND TERRESTRIAL OCCULTATIONS OF STARS	HAR LIND,	LNF-62-70 N63-12571	06-25
PHOTOELECTRIC PHOTOMETER TO STUDY SCATTI	173 21-22 Ering	CORRELATION OF MUON SPINS IN MUON PAIR PRODUCTION BY UNPOLARIZED PHOTONS LNF-62-75 N63-12573	06-23
INDICATRIX AT SMALL SCATTERING ANGLES AT MEASUREMENTS IN OPTICALLY UNSTABLE ATMOS	WD .	CIRCULAR POLARIZATION OF HIGH ENERGY GAMMA RAY BEAMS BY BIREFRINGENT SINGLE CRYSTALS	y 06-25
MEASUREMENT OF DISTANCE MODULUS AND COLO OF OPEN STAR CLUSTERS BY THREE-COLOR PHO N63-227		THERMAL MECHANISMS OF ATMOSPHERE AT F-REGION HETGHTS	1 11
INTERNAL & EXTERNAL INTERFERENCE DURING		NBS-TN-162 N63-12645	
PHOTOELECTRIC OBSERVATIONS OF METEORS FTD-TT-62-1428/,62 N63-236	31 24-05	PHOTOPROTONS EMITTED FROM LIGHT NUCLEI AND NUC SHELL STRUCTURE NUP-62-2 N63-12743	
PHOTOGRAPHY CF PHOTOGRAPHY	OTMITE.	THREE-PHOTON DECAY OF POSITRONIUM IS STATE AS	10.00

PHOTOSYNTHESIS
CF CHLOROPHYLL
CF HETABOLISH

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-23 -09 -09 -23 -09 ES T

23 ER 23

27 HE 25 CE 25

23

25

12 AR

23

ST

OF CHARGE CONJUGATION INVARIANCE NYO-10259	N63-14325	10-23	PROBLEMS OF PHOTOSYNTHESIS AEC-TR-4501 N63-1	
EXCITED STATE-LATTICE INTERACTION OPTICAL EXCITATION STUDY RR-TR-63-1	N OF F-CENTE	R - 10-25	EFFECT OF ILLUMINATION ON THE TRANSFOR GREEN PIGNENTS IN PLANTS	La Company that melling to
KK-1K-63-1	1103 -1013	10.75	FTD-TT-62-1203/162 N63-1	0306 01-16
MEISSNER EFFECT OF SUPERCONDUCTO OF PHOTON - ELECTRIC ANALOGY IN NUP-63-4			LIQUID-GAS CONTACTOR FOR PHOTOSYNTHETI	TO A PETROTOR
And the first had been been been been been been been bee	Louis port du lin	New York	AMRL-TDR-62-101 N63-1	0610 02-16
PERFORMANCE OF CESIUM VAPOR THER ENHANCEMENT BY PHOTON IRRADIATIO		RTER - 19-24	INJURY AND RECOVERY OF PHOTOSYNTHESIS DEVELOPMENT - TEMPERATURE EFFECTS	D. Laboration - London
SILICON SEMICONDUCTOR PHOTON ENE	DEV ARENDETT	ON	M63-1	1192 03-16
DATA DS-117	N63-20283	20-25	BIOLOGISTICS FOR SPACE SYSTEMS - ECOLO SYSTEMS - BIOREGENERATION AMRL-TDR-62-116 N63-1	PATRICIA TO ACTUAL TO ACTU
MAGNESIUM STANNIDE SEMICONDUCTOR ABSORPTION, HALL COEFFICIENT, AM	- PHOTON EN	ERGY	ALGAL PHOTOSYNTHETIC GAS EXCHANGER	AND PROPERTY OF STREET
PROPERTIES DS-114	N63-20298	20-18	MOTTAREND JANUETHE VE WITTEN	1466 03-16
ENERGY CONVERSION STUDY OF PHOTO ASD-TDR-63-707	TOTAL CONTRACTOR	28.83	ENGINEERING MODEL PHOTOSYNTHETIC GAS E N63-1	
A30-10K-63-101	NO3-23072	24-23	SOLAR ILLUMINATED PHOTOSYNTHETIC GAS E	XCHANGER -
OTON BEAM CALCULATIONS OF COLLISION SECTION OF LINEARLY POLARIZED ELECTRON P.			OXYGEN AND CARBON DIOXIDE ANALYSES - A AND TEMPERATURE N63-1	LGAE DENSITY
LNF-62/113	N63-15568	12-25	LIGHT CONVERSION IN PHOTOSYNTHESIS - P N63-1	
PHOTOPLASTICITY EXPERIMENTS - UN RELOADING EFFECTS ON NITROCELLUL	OSE MODEL	Angr. Angr.	STRUCTURE OF THE PHOTOCHEMICAL APPARAT PHOTOSYNTHESIS N63-1	
AROD-1283-20	N63-19353	18-33	OXYGEN EVOLUTION IN PHOTOSYNTHESIS	ALANGE RELIEF E
OTOPRODUCTION DETECTION OF PHOTOPRODUCED MUON	PAIRS IN CAR		N63-1	PARTMARKS
DOUBLE COINCIDENCE METHOD DISTIN PIONS, AND ELECTRONS LNF-62-63	N63-12567	06-23	REQUIREMENTS AND FUNCTIONS OF MICRONUT GREEN PLANTS WITH RESPECT TO PHOTOSYNT N63-1	HESIS
		1941	CHARLED A PROTECTION OF THE PR	PROTONS AN
PHOTOPRODUCTION OF PSEUDOSCALAR SYMMETRY MODEL LNF-63/21		18-23	THE PHOTOSYNTHETIC GAS EXCHANGE POTENT THE FAMILY LEMNACEAE /DUCKWEED/ N63-1	1478 03-16
#747 6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	A STATE OF THE STA	1200	SMCTON SURFACES	NODEROZ HO
F EYE		3896	PLANTS AS GAS EXCHANGE NECHANISM FOR C ECOLOGICAL SYSTEM AMRL-TOR-62-127	Maria Company
DTORESISTIVITY			7.3.45 3.347 Bryothers W189 303	
PHOTOCONDUCTIVITY PHOTOELECTRONIC SCANNING OF CODE CADMIUM SULFIDE PHOTORESISTANCE	D ENVELOPES CELLS FOR SO	BY RTING	CHLOROPLASTS ISOLATED FROM PLANT LEAVE ARTIFICIAL PHOTOSYNTHESIS AMRL-TDR-62-146 N63-1	NULL THE BUILD
PURPOSES	N63-15215	11-18	EXTRATERRESTRIAL MICROBIOLOGY - MARS, AND PHOTOSYNTHESIS N63-1	
SOLAR PHYSICS - PHOTOSPHERE, CHR	OMOSPHERE. S	OLAR	AND PROTUSTRINESTS	
CORONA, SOLAR FLARES IAS PAPER-63-1		07-05	BIOCHEMISTRY - PHOTOSYNTHESIS, AMINO A CHLOROPLAST, SPECTROPHOTOMETRY, AND ME UCRL-10634 N63-1	ETEORITES
SOURCE OF SOLAR FLARES - SOLAR A			O DATE AND DESCRIPTION OF PROPERTY OF STREET	AX IGNITATIVE
PHOTOSPHERE KINEMATICAL THEORY FOR MAGNETIC		10-28 ICED	CARBON-14 AND NITROGEN-15 TRACER STUDI ACID SYNTHESIS DURING PHOTOSYNTHESIS (N63-1	
BY INTERACTION OF TURBULENT EDDI LARGE-SCALE WEAK MAGNETIC FIELD	ES WITH	Shook .	PHOTOSYNTHETIC PROPERTIES OF SPINACH (LAMELLAE SUB-UNITS N63-)	CHLOROPLAST
		2011	THE STATE OF THE PERSON STATE OF THE	LEGGLIANDES -
DTOSTRESS PHOTOSTRESS AND FLASH BLINDNESS SAM-TDR-62-144	N63-12744	06-16	AIR PURIFICATION AND CONTROL IN MUCLE/ SUBMARINES - USE OF ALGAL SYSTEM IN PR SYNTHETIC GAS EXCHANGER, LIGHT INTENS	TY STUDY
		可能性	(0-4) 34(35-6)H	14930 11-16
PHOTOSTRESS TECHNIQUE IN STRAIN STUDY OF POLARIS A3 SECOND-STAGE ABL/X-86	AFT DOME N63-23152	24-20	OPTIMUM LIGHTING OF LEAVES - PHOTOSYNT	HESIS 16152 13-16
PHOTOSTRESS AND FLASH BLINDNESS	HAZARDS IN		INORGANIC CHEMISTRY - ENERGY TRANSFER	TRUEBIERING
AEROSPACE OPERATIONS SAM-TOR-63-67	N63-23339	24-16	PHEOPHYTIN AND IRRADIATED CAROTENE -	17982 16-07
EVALUATION OF RETINAL PERFORMANC OF VISUAL DISCRIMINATION RECOVER			PHOTOSYNTHETIC ORGANISMS VIELDING RESIGNATES IN SPACE N63-	PIRATORY 20567 20-16
PHOTOSTRESS SAM-TOR-63-47	N63-23372	24-16	INTENSIFICATION OF PHOTOSYNTHETIC PROI CULTURE OF UNICELLULAR ALGAE IN SPACE	
TOSYNTHESIS	CHE DEA JAS			21528 22-16

SPECTROPHOTOMETRIC ANALYSIS OF PHOTOSYNTHESIS BY

CHLOROPHYLL AND OTHER PLANT PIGHENTS FTD-TT-63-866/162 N63-23395	24-16	METABOLISH OF FISSION PRODUCTS STATE & METABOLIC PATH OF RADIO AEC-TR-5242		
PHOTOTUBE				
SA MULTIPLIER PHOTOTUBE GF AMPLIFIER CF ELECTRON TUBE		CHEMICAL AND PHYSICOCHEMICAL STU DICHLOROCYCLOHEXANONE	N63-13297	07-01
CF PHOTOMULTIPLIER DETECTORS FOR VACUUM-ULTRAVIOLET - PHOTO-EMI	eeron	PHYSICAL CHEMISTRY - CATION MIGI	RATION INTO	THE
SCINTILLATION, TRANSMISSION WINDOWS	04-23	EUR-141.F	N63-13763	08-07
MICROWAVE PHOTOTUBE AND LIGHT MODULATOR	04-23	RESEARCH IN SOLID STATE PHYSICS, METALLURGY AND PHYSICAL CHEMISTI		
W-J-63-610R12 N63-16344	14-15	NASA-CR-50456	N63-18400	17-25
ULTRAVIOLET PHOTODETECTORS - PHOTOIONIZATION CHAMBERS, PHOTOTUBES AND PHOTOMULTPLIERS NASA-TN-D-1718 N63-18654	17-15	RECOVERY OF OXYGEN FROM CARBON I CHEMICAL METHODS - AEROSPACE ME		20-16
PHOTOVISCOELASTICITY STRESS STATE SOLUTION FOR THEORY OF PHOTOVISCOELASTICITY BY INTEGRAL OPERATION		SPHERULITE DEFORMATION IN POLYBI ONR-TR-62	JTENE N63-22409	23-19
N63-23512	24-23	STRUCTURE AND PHYSICOCHEMICAL PE CRYSTALLINE BODIES AND BEHAVIOR		- SOLIE
PHOTOVOLTAIC CELL SOLAR-CELL POWER SYSTEMS TESTING - BALLOON F ARS PAPER-2504-62 N63-10255	LIGHTS 01-06	STRUCTURAL MATERIALS FTD-TT-62-911/162	N63-22575	23-19
EFFECT OF SPACE ENVIRONMENT ON PHOTOVOLTAIC ARS PAPER-2536-62 N63-10263	CELLS 01-06	NUCLEAR, RADIATION, ORGANIC, ELE WATER CHEMISTRY ORNL-3488	N63-23567	AL, & 24-07
SOVIET RECOMPUTATION OF THE LATERAL PHOTOVOL	TAIC	PHYSICAL CHEMISTRY AND FLUID DYN TEMPERATURE, HIGH SPEED GAS FLOW	IAMICS OF HI	ВН
EFFECT A10-62-184 N63-10279	01-15	SR-4-2	M42-22440	24-11
SOLAR CELL ARRAY OPTIMIZATION ASD-TR-61-11, VOL. III N63-12708	06-06	PHYSICAL CONSTRAINT MAPPING OF PHYSICAL CONSTRAINTS OPTIMIZATION	FOR SYSTEM	
CONCENTRATED AND FILTERED SOLAR RADIATION OF SILICON PHOTOVOLTAIC CELL N63-19260	18-06	R-155	N63-11744	04-09
INCLASTIC NUCLEAR INTERACTIONS BETWEEN HIGH PROTONS AND SILICON PHOTOVOLTAIC CELLS MR-21 N63-19871	ENERGY 19-06	PHYSICAL EXERCISE FIELD TEST FOR ASSESSMENT OF PHY CARI-63-6	SICAL FITNES	SS 19-16
PHOTOVOLTAIC EFFECT IN CELLS CONSTRUCTED ON SEMICONDUCTOR SURFACES	19-00	HYPERTHERMIA IN DOGS AND ITS DEF WATER DURING MUSCULAR EXERCISE A ENVIRONMENTAL TEMPERATURE		BODY
AFCRL-63-815 N63-20719	21-25	JPRS-20748	N63-19874	19-16
IMPROVEMENT OF SOLAR ENERGY CONVERSION IN CA SULFIDE THIN FILM PHOTOVOLTAIC CELLS N63-20941	21-25	PHYSICAL EXERCISE AND PHYSICAL C COSMONAUTS FOR SPACEFLIGHT	N63-21502	22-16
CADMIUM SULFIDE THIN FILM PHOTOVOLTAIC CELLS NASA-CR-51210 N63-21364	22-06	PHYSICAL EXERCISE FOR COSMONAUTS LOW GRAVITY - MUSCULAR COORDINAT		LLS
PHOTOVOLTAIC CONVERSION RESEARCH IN PHOTOVOLTAIC CONVERSION - LARGE	1917	PHYSICAL PROPERTY DETERMINATION OF PHYSICAL PROPER	***** 05 0001	WO BY
SOLAR CELLS, CRYSTAL SEMICONDUCTORS, AND SILL EFFICIENCY N63-14146	ICON 09-06	DICOM METHOD AFCRL-62-1018	N63-10191	01-12
PHOTOVOLTAIC CONVERSION OF SOLAR ENERGY INTO	0, 00	PHYSICAL & CHEMICAL PROPERTIES O	MEN TOTAL	
ELECTRICAL ENERGY FOR AUXILIARY POWER IN SPAN	09-06	TO STRUCTURAL TRANSFORMATION FTD-TT-62-1213/162	N63-10353	01-19
ULTRAVIOLET PHOTOVOLTAIC CONVERSION IN TITANS		PROPERTIES OF GLASSES TRANSMITTI		
OXIDE N63-16489	14-25	MICRON REGION SCA-34300	N63-11889	04-19
ANOMALOUS PHOTOVOLTAIC EFFECT IN ZINC SULFIDE LASC-6-90-63-20 N63-17127	15-25	PRODUCTION METHODS, PHYSICAL PRO ELECTRONIC STRUCTURE OF REFRACTO		,
CHEMICALLY SPRAYED THIN FILM PHOTOVOLTAIC CONVERTER N63-22340	23-09	THEIR COMPOUNDS AND ALLOYS JPRS-17322	N63-12136	05-18
PHTHALATE		PHYSICAL AND MAGNETIC PROPERTIES	OF ALUMINUM	-IRON
ELECTRONIC PROPERTIES OF POLYETHYLENE		MAGNETIC ALLOY SYSTEM NOLTR-62-144	N63-13300	07-18
DS-105 N63-21790	22-09			
PHTHALIC AMMYDRIDE DETERMINATION OF PHTHALIC ANHYDRIDE IN ALKYD		MEASUREMENT OF STRAIN ENERGY FUN TENSOR EQUATION - NONLINEAR PHYS JPL-TR-32-365		
	04-07	PHOSPHORS - CHEMICAL AND PHYSICA LUMINESCENCE, INFRARED, AND ELEC	TRIC PROPERT	IES
PHYSICAL CHEMISTRY THERMODYNAMICS OF INTERSTITIAL SOLID SOLUTION	is	AROD-2334-3	N63-17129	15-25
WITH REPULSIVE SOLUTE-SOLUTE INTERACTIONS	04-23	PHYSICAL AND MECHANICAL PROPERTI FROZEN GROUND - POLAR METEOROLOG		ICE.

SA PLASHA PHYSICS
SA PSYCHOPHYSICS
SA RADIOPHYSICS
SA SOLIO STATE PHYSICS

AL

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8

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3

5

2

	ORGANIC CHEMISTRY - PARTIAL AND POLYAROMATIC ETHERS - SYNTHESIS, AND PHYSICAL PROPERTIES - USE AS	THERMAL STA	BILITY LUIDS	F ELECTRONICS BIBLIOGRAPHY ON THE HIGH TEMPERAT PHYSICS OF GASES AND GAS-CONDENSE	URE CHEMIST D PHASE REA N63-10195	CTIONS
	PREDICTIONS OF PHYSICAL PROPERTY FLUID/INORGANIC SOLID GREASES FF SOLID-ORGANIC LIQUID DISPERSION	OH INDRGANIC	NIC (E-	EVALUATION OF THE VAN HOVE CORREL FOR CERTAIN PHYSICAL SYSTEMS ITP-74	ATION FUNCT	
	COMMISSION TO THE PROPERTY OF THE PARTY OF T	N63-17843	16-17	PHYSICS OF METALS AND METALLOGRAP	PHY T	SM
	ELECTROCHEMICAL AND PHYSICAL PRO ZEOLITES FOR FUEL CELLS		M1-20 TAG	FTD-TT-62-625/162 STIEST JHGTH HORN	* EDIMONTOS	12
	NASA-CR-50566	N63-18360	17-26	UPPER ATMOSPHERE PHYSICS - ELECTR RECOMBINATION, AIRGLOW	100 THE WAY	TOTAL TANK
	CHEMICAL PROPERTIES OF THE GAS I MATHEMATICAL ANALYSIS	TION OF THE TIXTURE - N63-18507	17-26	AFCRL-62-1138 NUCLEAR PHYSICS, REACTOR PHYSICS	N63-11692	Mark Service
	MECHANICAL AND PHYSICAL PROPERTY			HM-75228	N63-12411 -	06-23
	NIOBIUM BASED ALLOYS	N63-19032	18-19	BIBLIOGRAPHY ON HIGH TEMPERATURE PHYSICS OF GASES AND GAS-CONDENSE		
	DISPERSION STRENGTHENED NICHRONI PHYSICAL PROPERTIES		19-18	HIGH TEMPERATURE CHEMISTRY AND PA	44位,至6年前6年	
	PHYSICAL PROPERTIES OF CERTAIN I	MAGNETIC COMP	OUNDS	HATERIALS IN CONDENSED STATE		06-07
	AROD-2558-7	N63-19976	19-23	PHYSICS, ACCELERATORS, CHEMISTRY, MEDICINE - BNL REPORT	BIOLOGY,	Hd No.
	PHYSICO-THERMAL PROPERTIES OF SI AND SODIUM-POTASSIUM ALLOYS FROM			BNL-742/AS-16/	N63-12924	
	1300-DEG C EUR-357.D	N63-20062	20-18	PHYSICS, SOLID STATE DEVICES, MAS ASTRONOMY, AND CRYOGENIC APPLICAT MICROWAVE TECHNIQUES	TIONS OF	i halas
	MECHANICAL AND PHYSICAL PROPERTY SHEET AND TZM MOLYBDENUM SHEET	ES OF TUNGST	EN	HIGH ENERGY PHYSICS STUDY OF NUCL		(C1)
	SHEET AND 12H HULTBUENON SHEET	N63-20332	20-18	PHOTOGRAPHIC NUCLEAR ENULSION AND	HELTUN BUT	BLE
	HIGH TEMPERATURE LIQUID METAL TO DYNAMICS, HEAT TRANSFER, PHYSIC			AFOSR-2661	N63-13140	07-23
	BNL-814/PR-3/	N63-20614	20-18	PHYSICS - DIELECTRICS OF MICA AND	EFFECT OF	GAMMA
	PROPERTIES OF URANIUM MONONITRIES ISOSTATIC HOT-PRESSING TECHNIQUE	DO-HOU-SES		FTD-TT-62-1474/16264	N63-13619	NAT OF
	BHI-1633	N63-21163	21-19	NUCLEAR AND GENERAL PHYSICS & MAS MEUTRON CROSS SECTION, PROTON SCI MESON-NUCLEON INTERACTION	ATTERING, A	ID -
	MECHANICAL AND PHYSICAL PROPERTY WELDED INVAR 36-IRON-NICKEL ALL	165 OF FUSION DY N63-21234	21-19	ANL-6666	N63-13652	08-23
	MPTR-2-251-1 PHYSICAL PROPERTIES OF MARS	MO3-21234	21-14	SHOCK TUBES FOR STUDY OF PHYSICAL REACTIONS - BIBLIOGRAPHY	AND CHENIC	CAL
	SH-43634	N63-22371	23-29		H63-13672	08-23
	TRANSPORT & STRUCTURAL PROPERTION PHYSICAL PROCESSES, CHEMICAL KIN AMALYSES, & PROPULSION SYSTEMS	ES OF MATERIA	LS, STION	UNIVERSITY OF SOUTHAMPTON RANDOM PHYSICS, NOISE, VIBRATION	NYTES! HISTON	(BA
	UVA-3-R	N63-23564	24-27	ASD-TOR-63-91 12171 TORING HOLD OF		1484-79
	PHYSICAL AND MECHANICAL PROPERT OVERLAYS, REINFORCEMENTS AND TUI ASSET GLIDER	IES OF OVEN C	URED CO	PHYSICS REPORT - BUBBLE CHAMBER, PION, HEAVY ION, S-MATRIX, ATOMIC X-RAY STUDY, INTERACTIONS	BEAMS, SCI	ATTER,
17-	ASSET GLIDER ER-1115-21	N63-23668	24-02	UCRL-10572	N63-14080	09-23
	MAGNETIC AND PHYSICAL PROPERTIE	S OF BLENDED	BARIUH	CHEMISTRY, ENGINEERING, METALLUR RESEARCH - SUMMARY REPORT 15-500	N63-14961	11-01
	AND STRONTIUM FERRITES FTD-TT-62-1539/16264	N63-23730	24-19	DUCKER LIAK . NONEOUT THAT IN VISCOUT	OM . BOLLMOITU.	102
P	TYSICAL SCIENCE /GEN/ FUNDAMENTAL NUCLEAR ENERGY RESE. MEDICINE, PHYSICAL SCIENCES, EN	VIRONMENTAL	92	PHYSICS SUMMARY - VAN DE GRAFF A NUCLEAR REACTIONS, MASS SPECTROS SUPERCOMOUCTIVITY, AND PARTICLE ANL-6679	THEORY	11-21
	SCIENCE, NUCLEAR REACTOR, RADIO	N63-15708	12-01	BIBLIOGRAPHY ON HIGH TEMPERATURE PHYSICS OF MATERIALS IN CONDENSE	CHEMISTRY A	AMD
	BIOMEDICAL, PHYSICAL SCIENCE, ALEXPERIMENTS INITIATED BY MERCUR	NO ENGINEERIN	CL MIN	COUNTY OF SECURITY SAGRETIC, PLICE P.	N63-15927	13-17
1	ME PHYSIOCORICAL REACTIONS OF OCCUPANT ALSEE 38	N63-21963	22-29	ADVANCES IN SPACE MEDICINE, PHYS	N63-17048	15-01
1	MASICS /GEM/ A ASTROPHYSICS A BIOPHYSICS		13-	RADIATION EFFECT IN CHEMISTRY, 8 MASA-CR-50486	TOLOGY AND 1	PHYSIC:
	A GEOPHYSICS		III.	PEACEFUL APPLICATION OF NUCLEAR	ENERGY - PH	
-	A LOW TEMPERATURE PHYSICS	1855 45 Your		ENGINEERING, AND GEOLOGY - VOL I	NA3-10275	17-01
1	A NEUTRON PHYSICS A NUCLEAR PHYSICS A PLASNA PHYSICS	SALES AND IN	明 然	PEACEFUL APPLICATION OF NUCLEAR ENGINEERING, AND GEOLOGY - VOL I	ENERGY - PH	rsics.

CORRELATION FUNCTIONS N63-10405 01-23 LOGRAPHY 01-23 ELECTRON COLLISION. N63-11692 04-12 HYSICS AND MASS PHYSICS N63-12411 06-23 NATURE CHEMISTRY AND ONDENSED PHASE REACTIONS N63-12584 06-07 AND PHYSICS DF E N63-12585 06-07 ISTRY, BIOLOGY, M63-12924 07-01 ES, MASERS, RADIO-PPLICATIONS OF N63-13094 07-23 OF HUCLEAR PARTICLES BY ION AND HELIUM BUBBLE N63-13140 07-23 ICA AND EFFECT OF GAMMA N63-13619 08-23 S & MASS SPECTROSCOPY -TON SCATTERING, AND N63-13652 08-23 HYSICAL AND CHENICAL M63-13672 08-23 RANDOM SIREN FACILITY -N63-14055 09-10 AMBER, PARTICLE THEORY, ATOMIC BEAMS, SCATTER, N63-14080 09-23 TALLURGY, AND PHYSICS N63-14961 11-01 RAFF ACCELERATOR, ECTROSCOPY, TICLE THEORY N63-15185 11-23 RATURE CHEMISTRY AND NDENSED STATE N63-15927 13-17 , PHYSICS, AMD 15-01 TRY, BIOLOGY AND PHYSICS N63-10236 17-01 CLEAR ENERGY - PHYSICS. N63-10275 17-01 PEACEFUL APPLICATION OF NUCLEAR ENERGY - PHYSICS, ENGINEERING, AND GEOLOGY - VOL 1 103-10296 17-01 ANNUAL REPORT, INDIAN INSTITUTE OF SCIENCE, 1961

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	TO 1962 - CHEMISTRY, PHYSICS, MET	TALLURGY,		CARI-62-17	N63-10524	01-16
	PHARMACOLOGY, MATHEMATICS & ENGIN	N63-18302	17-01	SKELETAL MUSCLE ACTIVITY FOLLO	WING IMPACT N63-11038	03-16
	RELIABILITY PHYSICS - PHYSICS OF	FAILURE N63-18306	17-33	CHANGE OF ADRENALIN, ACETYLCHO SEROTONIN IN RATS SUBJECTED TO	LINE, HISTANII	NE, AND
	DICTIONARY OF PHYSICAL AND CHEMIC	AL FAILURE N63-18308	17-33	JPRS-16956		
	NBS 1962 RESEARCH HIGHLIGHTS - PH	DW 10 2332V		THROMBOPENIA FOLLOWING ABRUPT	ACCELERATION A	AND
	ELECTRONICS, AND MATERIALS SCIENCE				N63-11793	04-16
	METALLURGY RESEARCH - CHEMICAL AN METALLURGY, REACTOR METAL RESEARC	D PHYSICAL	Marine State	RADIATION SICKNESS - EFFECT OF EFFECT OF ACCELERATIONS AT MON JPRS-17202	BARBITURATES ENT OF IRRADIA N63-11948	ATION
	ENGINEERING	M63-18684		ACCELERATIONS CREATED AT MOMEN	T OF IRRADIAT	ION
	PHYSICO-MATHEMATICAL ANALOGIES BE		NS IN	OF ANIMALS AND COURSE OF ACUTE	N63-11950	
	ATMOSPHERE AND INTERSTELLAR SPACE	N63-18918	18-02	EFFECTS OF APPLIED OCULAR PRES		VE
	SPACE, ATOMIC, NUCLEAR, AND PLASH	A PHYSICS		ACCELERATION ON PHOTIC DRIVING NADC-MA-6214	IN MAN N63-12716	06-16
	UCRL-10862	N63-19226	18-23	IMPACT ACCELERATION STRESS - 1	961 HAS SYMPO	SIUM
	PHYSICS RESEARCH - THEORETICAL RE EXPERIMENTAL NUCLEAR & CRITICAL M			NAS-NRC/PU8-977	N63-12844	07-16
		N63-19506		PHYSIOLOGICAL ACCELEROMETERS - HUMAN TOLERANCE, OTOLOGY, WEIG		DIA S
	PHYSICISTS AND THEIR ROLE IN SPACE	E EXPLORATI		er insteading as our a	N63-12849	07-16
	NONEQUILIBRIUM PLASMA FLOW, MICRO	WAVE RADIAT	ION.	PERSONNEL RESTRAINT STUDIES FO SPACE VEHICLES	R ADVANCED HAP	HNED
	AND BACKSCATTERED RADIATION ASSOC REENTRY PHYSICS	IATED WITH	rel is	AMRL-TDR-62-128	N63-13143	07-16
		N63-20292	20-13	HISTORY OF BIODYNAMICS - PHYSI ACCELERATION AND IMPACT	OLOGICAL EFFE	CT OF
	COLLISIONAL PROCESSES LEADING TO EXCITATION AND IONIZATION BEHIND			ARL-TDR-63-10	M63-15076	11-16
	DURING REENTRY	N63-20420		ACCELERATION EFFECTS ON PILOT PSYCHOMOTOR RESPONSE	PERFORMANCE -	
	NUMERICAL COMPUTATION OF TRANSMIS			NADC-HA-6219	N63-17063	15-14
	COEFFICIENTS OF INHONOGENEOUS PLA APPLICATION TO TELEMETRY PROBLEM	SHA LAYER -		HYPOXIA IN HUMANS SUBJECTED TO POSITIVE G-FORCE ACCELERATION AMRL-TOR-62-137	WINDLINESS NAME	
	HIGH ENERGY PHYSICS AND NUCLEAR S	611 31114		COMPARISON OF CARDIORESPIRATOR	1-1616344	
	COMPLEX NUCLEI, HIGH ENERGY ELECT PIONS, NUCLEONS, DEUTERONS, AND M	RON SCATTER	ING, 21-23	PILOTS TO NON-FLYERS DURING DI OF ACCELERATION - G-FORCE EFFE AMRL-TDR-62-151	FFERENT PROFIL	
	REACTION BETWEEN GASES AND CONDEN		(4)	LONG-TERM ACCELERATION AND CEN	UNITED BUT JOYCE	AWY
	SPECTROSCOPY OF HIGH TEMPERATURE			STUDIES ON HUMAN PERFORMANCE A		
	TECHNICAL ELECTRONIC PHYSICS PROJ	ECTS N63-22251	23-01	CHIMPANZEE CONDITIONED RESPONS ACCELERATION AT SUSTAINED LOW ARL-TDR-63-6		BAG .
	MEASURING SYSTEMS, DEFINITIONS & OF PHYSICS	CONVERSION	TABLES	HENDDYNAMICS AND GAS EXCHANGE	S-CIU:	
		N63-22762	23-23	DURING TRANSVERSE CHEST-BACK A		SPACE
	SOLUTION OF MONSIMILIAR, NONEQUIL FLOW EQUATIONS FOR REENTRY VEHICL	IBRIUM VISC E WAKES N63-23086		EFFECT OF TRANSVERSE ACCELERAT SPACE BIOLOGY	IONS ON HUMAN N63-21520	
	REENTRY PHYSICS - CONVECTIVE AND OF HEAT SHIELD-PAYLOAD FRACTIONS			EFFECTS OF VARYING DEGREES OF TRANSVERSE ACCELERATIONS ON EL OF HUMAN CEREBRAL CORTEX - SPA	ECTRICAL REAC	TIONS
	SATISFIED BY A PROPERTY OF STATES	N63-23236		OF HOMAN CEREBRAL CORTEA - SPA	N63-21521	22-16
	FLIGHT INSTRUMENTATION FOR REENTR INTERACTION OF IONIZED GAS WITH M POWER AND ATTITUDE CONTROL TDR-169/3153-20/TM-1	AGNETIC FIE	LD FOR	LIMIT OF HUMAN TOLERANCE TO TR ACCELERATIONS AND PHYSIOLOGICA BODY - SPACE BIOLOGY		
Pin	YSIOCHEMISTRY			VISUAL PERCEPTION OF TARGETS D	THE WAR THE	STEVAGE
CI	F SIOCHEMISTRY	011110-117-21		PRECEDED BY POSITIVE OR NEGATI ELEVATOR ILLUSION	VE ACCELERATE	ON -
PHI	SIOLOGICAL ACCELERATION EFFECT OF FORWARD ACCELERATIONS,	STAGED		SAM-TDR-62-141	N63-22076	SA LO
10-1	EVISCERATION AND SUPPORT SYSTEMS INTRAPULMONARY PRESSURES IN ANIMA AMRL-TOR-62-106	LS	81-14	EFFECT OF SEX, WEIGHT, & AGE OF RATS NADC-MA-6313	N63-22426	
	THE PROPERTY OF THE PROPERTY O	M63-10105	01-14		ASBA PHYSICS	24 PL
	AROUSAL AND 173 EFFECTS ON HUMAN NYSTAGMUS INDUCED BY CALORIC IRRI AMGULAR ACCELERATIONS	GATION AND	(4-3)	EFFECT OF AGING ON G-TOLERANCE MADC-MA-6314	OF RATS 863-22427	23-16

ND ON 16

ő

G T

CF BIOLOGICAL EFFECT	ENGGENIC SKIN GRAFTS STORY SEASON AND THE SEASON ALLES
PHYSIOLOGICAL HEAT PROBLEMS OF SPACE TRAVEL WGL PAPER-64 N63-10059 01-16	MISTORY OF BIODYNAMICS - PHYSIOLOGICAL EFFECT OF ACCELERATION AND IMPACT
EFFECTS OF CHANGES IN BLOOD CARBON DIOXIDE ON BRAIN OXYGENATION AT 147-MM HG	#1-11 ARL-TDR-63-10 27 3743 M6J-15076 2911-16
SAH-TDR-62-70 H63-10322 01-16	PRESSURE AND THYROID FUNCTION OF HYPERTENSIVE
MEDICO-BIOLOGICAL CONTROL IN COSMIC FLIGHT JPRS-16205 N63-10363 01-16	RATS
PROBLEM OF VESTIBULAR DISTURBANCES PRODUCED IN A ROTATING ENVIRONMENT N63-19396 01-16	SOVIET MANNED SPACE FLIGHT - RESULTS OF MEDICAL & PHYSIOLOGICAL MONITORING OF COSMONAUTS IN WOSTOK 1 & VOSTOK 2 - LIFE SUPPORT SYSTEMS
AROUSAL AND ITS EFFECTS ON HUMAN VESTIBULAR NYSTAGHUS INDUCED BY CALORIC IRRIGATION AND	HOSTACKAR COMPONDED AND SERVICE NO. 1849-18480 CAMAD
ANGULAR ACCELERATIONS CARI-62-17 N63-10524 01-16	COMPUTER PROGRAM TO SIMULATE BLOOD CHEMISTAY CHANGES IN RESPONSE TO PHYSIOLOGICAL STRESS RM-3541-PR
SKELETAL MUSCLE ACTIVITY FOLLOWING IMPACT ARL-TOR-62-26 N63-11038 03-16	HUMAN TOLERANCE AND PERFORMANCE UNDER SEVERE
VENTILATORY RESPONSE TO CARBON DIOXIDE AND TO	TRANSVERSE VIBRATION - PHYSIOLOGICAL EFFECT HE ER-12038 1220 90 YOU GLEVERON THE HAD-18708 13-14
OXYGEN AFTER ACCLIMATIZATION TO CARBON DIOXIDE AMRL-TDR-62-136 N63-11755 04-16	DIGITAL READOUT TECHNIC APPLICABLE TO LABORATORY & AEROSPACE MEDICAL MONITORING OF PHYSICLESY
PHYSIOLOGICAL RESPONSES OF ASTRONAUTS DURING SPACE	RESPONSE DATA
A10-62-202 N63-11836 04-16	DECOMPRESSION SICKNESS - CIRCULATORY & RESPIRATORY
NATURAL BACKGROUND RADIOACTIVITY AND RECORDING OF- PHYSIOLOGICAL FUNCTIONS IN MAN WHILE PERFORMING PHYSICAL WORK	CHANGES IN DOGS - EFFECT OF INTRAVENOUS BUBBLES SAM-TDR-63-7 NG3-16127 15-16
JPRS-17249 N63-12065 05-16	SINUSDAROPATHY - AILMENT CAUSED BY BAROMETRIC VARIATION - PHYSIOLOGICAL EFFECTS OF PRESSURE
REVIEW OF INSTRUMENTS FOR RECORDING PHYSIOLOGIAL RESPONSES IN MAN WHILE PERFORMING PHYSICAL WORK NO3-12067 05-16	PHYSIOLOGICAL AND MECHANICAL RESPONSE OF JUMBS TO
BLOOD FLOWMETER ANALYSES OF CORONARY AND HEPATIC CIRCULATION REGULATORY MECHANISMS IN RESPONSE TO	LONGITUDINAL WHOLE-BODY VIBRATION AS DETERMINED BY SUBJECTIVE RESPONSE MED-16472 14-14
STRESS AND PHYSIOLOGIC ACTIVITY P-2/168 N63-12378 06-16	CARDIOPULNONARY RESPONSES TO HYPOTHERNIA AND
SCIENTIFIC CONFERENCE ON RECOVERY FROM RADIATION INJURIES N63-12399 06-16	OTHER ENVIRONMENTAL STRESSES - RESPIRATION AMRL-TOR-63-19 NOD-10557 10-16 NONESTERIFIED FATTY ACIDS IN VENOUS BLOOD UNDER
STRESS RESPONSES OF PILOTS FLYING 6-HOUR MISSIONS OVERWATER IN F-104 AIRCRAFT SAM-TDR-62-112 N63-12738 06-16	EXPERIMENTAL CONDITIONS RELATED TO PLICHT - PHYSIOLOGICAL EFFECT FMI-63-1
POSTURAL REFLEXES IN ANIMALS UNDER INCREASED AND	EFFECT OF ELECTRIC STIMULATION OF BRAINS OF
DECREASED GRAVITY - ADAPTION UNDER WEIGHTLESSMESS NASA-TT-F-130 N63-13222 07-16	UNAMESTHETIZED CATS - MEURAL RESPONSE TO SEPTAL AND HYPOTHALAMIC STIMULATION AAL-TOR-62-14 N63-16868 14-16
RESPONSE OF OTOLITH ORGANS OF CAT TO TILTED POSITION	EFFECTS OF DIFFERENT TYPES AND INTENSITIES OF
SAM-TOR-62-132 N63-13588 08-16	FRE-TH-90 MENAN PHYSIOLOGY AND BEHAVIOR 14-16
HUMAN SERUM LIPID LEVEL VERSUS AGE - CHOLESTEROL SAM-TDR-62-142 N63-13644 08-16	ANATORY OF HYPOTHALAMUS AND FORESRAIN - RELATION TO CONTROL OF SHIVERING
EXTRACRANIAL AND INTRACRANIAL CIRCULATION	AAL-TDR-62-13 N63-17346 15-16
IN ANIMALS BY ELECTROPLETHYSMOGRAPHY MASA-TT-F-161 N63-14431 10-16	ACCEPTABLETY OF DEHYDRATED FOOD DURING CONFINEMENT - PHYSIOLOGICAL, PSYCHOLOGICAL AND
PULSE AND RESPIRATORY FLUCTUATIONS OF INTERCRANIAL PRESSURE IN HERMETIC CAVITY	PSYCHONOTOR EFFECTS ANRI-TDR-63-9 N63-18141 16-16
HASA-TT-F-162 N63-14432 10-16	RADIATION EFFECT ON BIOLOGICAL SPECIMENS -
POSSIBLE EFFECTS OF WEIGHTLESSNESS ON GALCIUM METABOLISM IN MAN - SKELETAL RAREFACTION AND	RADIATION PROTECTION N63-16217 17-16
HYPERCALCURIA UR-622 N63-14497 10-16	ACOUSTICS - PHYSIOLOGICAL EFFECT, NOISE
BACKWARD MASKING UNDER MONOTIC & DICHOTIC ACOUSTIC	HORAL MEASUREMENT MASS-10230 17-23
STIMULATION N63-14790 11-16	PHYSIOLOGICAL EFFECT OF ANNOYING SOUNDS - ACOUSTICS W43-1839 17-16
CHRONIC EXPOSURE OF DOGS TO MICRONAVE RADIATION OF 24,000 MEGACYCLES AND POWER DENSITY OF 20 MM/CM2 RADC-TOR-62-604 N63-14649 31-16	RADIATION MEDICINE - APPLICATION TO CAMEER RESEARCH - EFFECTS ON HUMAN BODY
HEMODYNAMIC RESPONSE TO ZERO GRAVITY N63-14922 11-16	RADIATION THERAPY OF MALIGNANT DISORDERS USING
RESPONSE OF IRRADIATED AND NON-IRRADIATED HICE.	RADIOISOTOPES, AND TRACERS
SENSITIZED BY VARIOUS MEANS, TO ALLOGENIC AND	INTERACLECULES ELECTRON TRANSPER IN 12112142832201

CARBONIC ANHYDRASE INHIBITION IN EXERCISING RATS - PHYSIOLOGICAL EFFECTS IN STRESS CONDITIONS	JPRS-17117 N63-11776 04-16
SAM-TDR-63-22 N63-18880 18-16	REFLEX BRISKNESS - TENDON REFLEXES ARL-TDR-62-27 N63-11791 04-16
HUMAN BODY SIZE-TO-STRENGTH RELATIONSHIP - PHYSIOLOGICAL EFFECTS ARL-TOR-63-19 N63-19758 19-16	VITAL FUNCTION RESTORATION FROM CLINICAL DEATH CAUSED BY MECHANICAL ASPHYXIA
POSTURE AND GRASPING STRENGTH OF MONKEYS, APES AND	JPRS-17162 4 M63-11839 04-16
HUMANS ARL-TOR-63-21 N63-19759 19-16	PHYSIOLOGY - THERMAL STRESS IN HUMAN BODY, SMEATING
PSYCHOLOGICAL AND PHYSIOLOGICAL ETIOLOGY OF MOTION	AMRL-TDR-62-131 N63-11922 04-16
SICKNESS 19-16 PHYSIOLOGICAL RESPONSE IN CATS FROM VESTIBULAR CANAL STIMULATION BY UNILATERAL CALORIC IRRIGATION	ABSOLUTE IDENTIFICATION OF CUTANEOUS STIMULI VARYING IN BOTH INTENSITY LEVEL AND DURATION CARI-62-16 M63-12248 05-14
CART-63-3 PHYSIOLOGICAL EFFECT OF SPACE FLIGHT ON HUMAN BODY	BIOLOGICAL AND PHYSIOLOGICAL STUDIES OF PERGORATHUS, POCKET MICE NSL-62-125-2 M63-12356 06-16
NASA-TT-F-186 N63-20613 20-16	EFFECT OF DECREASED BAROMETRIC PRESSURE ON
PHYSIOLOGICAL EFFECT OF PROLONGED WEIGHTLESSNESS - ZERO-GRAVITY - PATHOPHYSIOLOGY OF DISUSE AMRL-TOR-63-3 N63-21301 21-16	RESPIRATORY DAYGEN REQUIREMENTS AND BREATHING HODES IN MAN SAM-TDR-62-94 N63-12462 O6-16
PHYSIOLOGIC RESPONSE TO TRANSIENT HEAT STRESS IN	NUTRITIONAL ASPECTS OF MANNED SPACE FLIGHT
PHYSIOLOGIC RESPONSE TO TRANSIENT HEAT STRESS IN REFLECTIVE VERSUS NONREFLECTIVE CLOTHING AMRL-TDR-63-79 N63-22521 23-14	N63-12482 06-16
MANNED LUNAR FLIGHT - LUNAR SPACECRAFT, PHYSIOLOGICAL ASPECTS, LUNAR ENVIRONMENT	MECHANISM OF HUMAN LOCALIZATION OF SOUNDS WITH APPLICATIONS IN REMOTE ENVIRONMENTS NOTS-TP-3109, PT. 2 N63-12495 06-08
N63-22841 23-32 LIFE SCIENCE RESEARCH - SPACE BIOLOGY, AND	NEURON ACTIVITY BY PARAMAGNETIC RESONANCE PIBHRI-1071-62 N63-12700 06-15
PSYCHOLOGICAL AND PHYSIOLOGICAL EFFECTS OF SPACE FLIGHT N63-23235 24-01	EVALUATION OF DIURESIS INDUCED BY IMMERSION IN WATER OF VARYING TEMPERATURE
PHYSIOLOGY SA GASTROINTESTINAL SYSTEM	NADC-MA-6218 N63-12717 06-16
SA PSYCHOPHYSIOLOGY CF HUMAN BODY	PHOTOSTRESS AND FLASH BLINDNESS SAM-TDR-62-144 06-16
CF INNUNCLOSY CF METABOLISH CF METABOLISH	HEARING & BIOACOUSTICS - NRL ACTIVITIES - 1962 N63-12824 06-16
CF PRECORDIUM CF SWEATING	COLD PRESSOR TEST - BLOOD PRESSURE & HYPERTENSION
TECHNIQUES OF PHYSIOLOGICAL MONITORING AMRL-TDR-62-98/1/ N63-10152 01-16	SAM-TDR-62-137 N63-12877 07-16
EFFECTS OF CHANGES IN BLOOD CARBON DIOXIDE ON BRAIN OXYGENATION AT 147-MM HG	PATHOGENIC MECHANISMS IN GAS AND FAT EMBOLISM - DISTRIBUTION BY CIRCULATORY SYSTEM N63-13825 09-16
SAM-TOR-62-70 M63-10322 01-16 BIOLUMINESCENCE AS A PHYSIOLOGICAL INDEX	ENOGRADIOSONDES - STATE OF THE ART SURVEY AMRL-TDR-62-122 N63-13937 09-16
N63-10397 01-20 HYPERVENTILATION IN MAN - CARBON DIDXIDE AND ACID-	VAPOR PRESSURE EFFECTS ON PHYSIOLOGIC STRAIN AND BODY HEAT STORAGE - THERMAL STRESS
BASE TRANSIENTS AND RECOVERY FROM HYPERVENTILATION SAM-62-52 N63-10433 01-16	AMRL-TDR-62-147 N63-13938 09-16
ELECTROCARDIOGRAPHIC AND VECTORCARDIOGRAPHIC OBSERVATIONS OF THE HEART AT HIGH ALTITUDES SAM-TOR-62-87 N63-10655 02-16	SYMPOSIUM ON APPLICATION OF ELECTROMECHANICS TO PHYSIOLOGY, CODING, TRANSMISSION, AND TELEMETRY JPRS-13512 N63-14014 09-09
PHYSIOLOGICAL PROTECTION OF THE CSU-4/P HIGH ALTITUDE PRESSURE SUIT	BIOLOGICAL INSTRUMENTS DEVELOPED TO SIMPLIFY PHYSIOLOGICAL INVESTIGATIONS AND AUTOMIZE DATA REDUCTION H63-14020 09-09
AMRL-TDR-62-112 M63-10678 02-16 MANHIGH PROJECT, LIFE SUPPORT SYSTEMS, CREM	HUMAN THERMOSTAT - TEMPERATURE CONTROL STIMULUS- RESPONSE N63-14072 09-16
PERFORMANCE, PHYSIOLOGY, PSYCHOLOGY M63-11155 03-04	FRENCH MEDICAL-PHYSIOLOGICAL LABORATORY N63-15037 11-16
ENDOGENOUS METABOLISM IN ALGAE N63-11193 03-16	AEROSPACE MEDICINE AND BIOLOGY - BIBLIOGRAPHY ON
ABSORPTION OF D-GLUCOSE BY INTESTINAL SEGMENTS N63-11426 03-16	PHYSIOLOGY, PSYCHOLOGY, PHARMACOLOGY, TOXICOLOGY, SAFETY, AND LIFE SUPPORT SYSTEMS N63-15258 12-16
BIDASTRONAUTICS - SPACE ENVIRONMENT, HUMAN PERFORMANCE	EFFECT OF WEIGHTLESSNESS ON HUMAN PHYSIOLOGY, BEHAVIOR, AND PERFORMANCE N63-16267 13-14
NASA-SP-18 N63-11508 03-16	SCIENCE IN ARCTIC OCEAN BASIN - BOTANY,
PHYSIOLOGICAL ASSESSMENT OF ROBERTSHAW-FULTON REGULATOR TYPE 20004 FORCHED-175 MA3-11773 DA-14	ZOOLOGY, MICROBIOLOGY, PHYSIOLOGY AND MEDICINE, AND ECOLOGY
FPRC/HEMO-175 N63-11773 04-16	MAS-NRC-1086 N63-16837 14-16 PSYCHOLOGICAL AND PHYSIOLOGICAL PROBLEMS OF MANNED
NEW DEVELOPMENTS IN PHYSIOLOGY AND THEIR RELATION TO CYBERNETICS	SPACEFLIGHT N63-18958 18-16

6-16 6-16

1-16

-16

5-14

-16

-16

-08

-16 -16 ON -16

-16 -16 D

-09

-09 -16

-16 N Y, -16

-16

ELECTROPHYSIOLOGICAL CORRELATES OF PROLOMGED EXPOSURE TO UNIFORM VISUAL STIMULATION — VISUAL PERCEPTION — BLANKOUT N63-19244 18-14	PHYTOLIPOPOLYSACCHARIDE PHYTOLIPOPOLYSACCHARIDE - IRRADIATION - ULTRASONIC MAYES - INSULIN
MANUAL PROPERTY OF THE PROPERTY OF THE PARTY	JPRS-17239 N63-12014 D5-16
BEHAVIORAL SCIENCE BIBLIOGRAPHY - PSYCHOLOGY AND PSYCHOPHYSIOLOGY N63-19436 19-14	PI-ELECTRON EXCITATION ENERGIES AND OSCILLATOR STRENGTHS OF
HANFORD BIOLOGY RESEARCH ANNUAL REPORT FOR 1962 - TOXICITY AND METABOLISM OF RADIOACTIVE ELEMENTS,	THE PI-ELECTRON SYSTEM OF URACIL - SPECTRA CALCULATION OF HETEROCYCLIC MOLECULES
ANIMAL AND PLANT PHYSIOLOGY, ECOLOGY HH-76000 N63-19706 19-16	N63-13133 07-07
	FICHOFF
MONKEY, APE AND HUMAN MORPHOLOGY AND PHYSIOLOGY RELATING TO STRENGTH AND ENDURANCE	ANALOG SIMULATION OF INERTIAL REFERENCE SERVO LOOP WITH DIGITAL GYRO PICKOFF
ARL-TDR-63-22 N63-19760 19-16	RG-TR-63-7 N63-13155 07-22
PATHOPHYSIOLOGY OF HIGHER NERVOUS ACTIVITY OF MAN	OPTICAL PICKOFF FOR SERVOHECHANISM USED ON
AND MEDICAL PSYCHOLOGY RESEARCH METHODS JPRS-20543 N63-19802 19-14	SATELLITE ALTITUDE CONTROL SYSTEM
GAME THEORY APPLIED TO NERVOUS SYSTEM CYBERNETICS	PICRATE
AND PHYSIOLOGY	MAXIMUM RATE OF BURNING OF POTASSIUM PICRATE UNDER
JPRS-20629 N63-20399 20-14	TIL /7-5390 NA3-13646 08-07
HUMAN RELIABILITY AND LIMITATIONS IMPOSED BY BODY	PICTURE PROPERTY OF THE PROPERTY OF THE CONTROL OF THE PROPERTY OF THE PROPERT
PHYSIOLOGY - AEROSPACE MEDICINE N63-20560 20-16	PICTURE REGENERATION FROM QUANTIZED DATA USING
PHYSIOLOGICAL CYCLES IN AERONAUTICS	CONSTANT INTENSITY CONTOURS N63-22505 23-23
AND ASTRONAUTICS - AEROSPACE MEDICINE N63-20573 20-16	PIEZOELECTRICITY PIEZOELECTRIC-MAGNETOSTRICTIVE COUPLING IN DIGITAL DEVICES N63-10325 01-23
NUCLEIC ACID CONTENT OF NERVE CELLS IN VARIOUS	GHA SICIAS VIA DE MAISTE VALUES SONVENDS DAN ANDER
FUNCTIONAL STATES FROM CYTOPHOTOMETRIC METHODS JPRS-20868 N63-20663 20-16	TRANSISTORIZED CONTROL SYSTEMS FOR DATA STORAGE DEVICE USING PIEZOELECTRICS
THE PROPERTY OF THE PROPERTY O	JPRS-17323 N63-12189 05-17
LIFE SUPPORT SYSTEMS - SPACE MEDICINE AND BIOLOGY, PHYSIOLOGY AND PSYCHOLOGY N63-20793 21-16	RESONANT FREQUENCY EQUATION FOR RIGHT CIRCULAR
ROLE OF STOMACH & OTHER EXTRA-RENAL ORGANS IN	CYLINDERS OF ANY DIMENSION - MICROMINIATURE CERAMIC PIEZOELECTRIC FILTER & TRANSFORMER DESIGN
IODINE LOSS DURING THYROID UPTAKE - HUMAN PHYSIOLOGY N63-21184 21-16	TR-1108 M63-14559 10-09
	PIEZOCERANIC PRESSURE TRANSDUCERS FOR SHOCK TUBE
BODY TEMPERATURE - SHIVERING & HEAT REGULATION -	PRESSURE MEASUREMENT - SHOCK WAVE PROFILES OF REFLECTED WAVES, THICKNESS AND CURVATURE
PHYSIOLOGY AAL-TDR-62-12 N63-21397 22-16	
THE PART OF THE PROPERTY OF THE PART OF THE PARTY OF THE	PIEZOPHOTOGRAPHY FOR MEASURING AMPLITUDE OF
FUNCTIONING OF ACADEMIC COUNCIL ON PHYSIOLOGY - HUMAN AND ANIMAL PHYSIOLOGY JPRS-21133 N63-21455 22-16	PRESSURE MAVES NO3-10/61 17-12
JPK3-21133 22-10	NUCLEAR RADIATION EFFECT ON BARIUM TITANATE & LEAD
COSMONAUT PHYSIOLOGICAL STUDIES DURING SPACEFLIGHT N63-21496 22-16	ZIRCONIUM TITANATE - PIEZOELECTRIC CRYSTALS
GENETIC AND PHYSIOLOGICAL EFFECT OF SPACEFLIGHT OF	PIEZOELECTRIC COUPLING BETWEEN ULTRASONIC WAVES
SEEDS OF HIGHER PLANTS AND ACTINOMYCETES - SPACE	AND FREE ELECTRONS IN CADMIUM SULFIDE
810LOGY N63-21511 22-16	ingreed states a state of the Marketine
PHYSIOLOGY OF PLANTS GROWN IN PAMIR COMPARED TO PLANT GROWTH IN SPACECRAFT ABOVE ATMOSPHERE -	MAGNETIC PROPERTIES OF PIEZOELECTRIC GALLIUM-IRON OXIDE - TEMPERATURE EFFECTS, & EFFECT OF ALUMINUM
SPACE BIOLOGY N63-21512 22-10	AECDI -42-303 MA3-31431 23-19
OF ANIMALS - SPACE BIOLOGY N63-21525 22-10	PIEZOELECTRIC SENICONDUCTORS FOR ACOUSTIC WAYE AMPLIFICATION - NORMAL MODES, COUPLED MODES, AND
AUXIN TRANSPORT IN PLANT PHYSIOLOGY & METABOLISM -	AMPLIFICATION - NORMAL MODES, COUPLED MODES, AND
ENZYMATIC PROCESS OF EPINASTY	ML-1057 N63-22912 23-25
N63-21644 22-16	PIEZOELECTRIC CHARGER N63-22923 23-09
PULHONARY EFFECTS OF COLD ACCLIMATIZATION AND	AND THE PERSON OF THE PERSON O
NOREPINEPHRINE CALORIGENESIS IN RATS AAL-TOR-62-57 N63-21680 22-10	TOWARDS AN EMPIRICAL CALCULUS OF REINFORCEMENT
PHYSIOLOGIC MEASUREMENTS AND MEDICAL DISERVATIONS	VALUE VIA SWITCHING SYSTEM USING CARNEAUX PIGEONS N63-23593 24-20
OF ASTRONAUT - MERCURY PROJECT	THE PERSON OF THE MAN ATTACK-OTSPLAY NOTES OF THE PROPERTY
THE RESERVE OF THE PERSON OF T	CF RUTILE SUPPLIES THE STREET OF THE STREET OF THE STREET
PHYSIOLOGY OF INTRACRANIAL BLOOD CIRCULATION AND	REVERSIBLE FREE RADICAL GENERATION IN THE MELANIN GRANULES OF THE EYE BY VISIBLE LIGHT
CLINICAL IMPLICATIONS NASA-TT-F-156 N63-22863 23-1	
The state of the s	TARGETA FOR TWE WE WE WERE TO
IMPETUS OF SPACE PROGRAM ON SENSORY AND ENVIRONMENTAL PHYSIOLOGY N63-23453 24-1	EFFECT OF ILLUMINATION ON THE TRANSFORMATION OF GREEN PIGMENTS IN PLANTS FTD-TT-62-1203/162 N63-10306 01-16
BIOLOGY AND PHYSIOLOGY OF POCKET HOUSE AS ORGANIS	110-11-02-1203/116
FOR BIOSATELLITE RESEARCH	STABLE PIGHENTS FOR LONG-RANGE SATELLITE COATINGS

The same transport of the same and the same and

INTERNOLECULAR ELECTRON TRANSFER IN TETRAPPRIOLE

PIGHENT DURING PULSED ILLUMINATION JPRS-21519 N63-23141 24-	AIRCRAFT PERFORMANCE SIMULATORS FOR PILOT TRAINING O7 NAVTRADEVCEN-1146-1 N63-14788 11-04
SPECTROPHOTOMETRIC ANALYSIS OF PHOTOSYNTHESIS BY CHLOROPHYLL AND OTHER PLANT PIGHENTS FTD-TT-63-866/1&2 N63-23395 24-	MEASURING HUMAN TRANSFER FUNCTIONS — DETERMINATION OF VARIABLE GAINS USING ANALOG AUTOPILOT AND HUMAN 16 PILOT OPERATING FLIGHT SIMULATOR CONTROLS
PILOT	
PILOT SA AUTOPILOT CF ASTROMAUT	MOVING-COCKPIT-SIMULATOR STUDY OF PILOT PERFORMANCE DURING REENTRY AT PARABOLIC VELOCITY
CF NAVIGATION	NASA-TN-D-1797 N63-15562 12-10
MANNED CONTROL OF LARGE SPACE BOOSTERS N63-10394 01-	
PILOT ERROR - REDUCIBLE AIR TRAFFIC RISK N63-10584 02-	NASA-TN-D-1897 N63-15776 13-14
SURVEY OF OPERATIONAL FLYING ACTIVITIES OF ROTAR	INVESTIGATION OF AIR CURRENTS PREVALENT AT ALPINE Y FOOTHILLS IN THE LIGHT OF AIDING SAILPLANE PILOTS
WING AVIATORS HUMARO-TR-75 N63-11339 03-	CARRIER ARROCACII I GUCTTURINAL ATLOTTO CONTROL
PILOTS FLIGHT REPORT - MA-8 MISSION N63-11995 05-	N63-16157 13-14
HELICOPTER PILOT TRAINING, AERIAL RECONNAISSANCE	PILOT VISIBILITY - PILOT VISUAL PERCEPTION TASK - VISIBILITY TRAINING EQUIPMENT
NAVIGATION, INSTRUMENTATION, AERIAL GUNNERY N63-13083 07-	NAVTRADEVCEN-783-1 N63-16715 14-14 ACCELERATION EFFECTS ON PILOT PERFORMANCE -
ACID-BASE VARIATION IN BLOOD AND URINE FOR DETECTION OF IN-FLIGHT HYPERVENTILATION	PSYCHOMOTOR RESPONSE NADC-MA-6219 N63-17063 15-14
SAH-TDR-62-117 N63-13538 08-	VOSTOK I MANNED SPACE FLIGHT - COSMONAUT
PILOT AND CONTROL DISPLAY SYSTEM TO FLY C-1318 AN KC-135 AIRCRAFT IN KEPLERIAN TRAJECTORY TO CREAT	E
ZERO-GRAVITY FLIGHT CONDITIONS AMRL-TDR-63-11 N63-15353 12-0	PILOT FACTORS IN ARMY FIXED WING AIRCRAFT 04 ACCIDENTS HF-1-62 N63-18878 18-14
PILOT INFORMATION REQUIREMENT IN FLIGHT - AIRCRAFT CONTROL N63-15382 12-	
PILOT ERROR IN SPACE RENDEZVOUS MANEUVER FROM	ON 1467 ACCIDENTS, 1957-1961 HF-2-62 N63-18879 18-14
NOISE INTERFERENCE OF RADAR SYSTEM NASA-TN-D-1619 N63-19176 18-	BACKSCATTERED LIGHT EFFECTS ON PILOT ABILITY TO
PILOT LANDING AIR TELEVISION /PLAT/ SYSTEM	
ar canalar	NATURAL PILOT MODEL FOR FLIGHT PROFICIENCY
PILOT PERFORMANCE BIOLOGICAL PERFORMANCE RESERVE ESTIMATION IN	EVALUATION IN OPERATIONAL FLIGHT TRAINING - PILOT PERFORMANCE PROFICIENCY MEASUREMENTS
PILOTS WGL PAPER-63 N63-10058 01-	NAVTRADEVCEN-323-1 N63-19088 18-14 PANEL MOUNTED FLIGHT INSTRUMENT DEVELOPMENT -
PILOTS ABILITY TO CONTROL DURING SIMULATED STABILITY AUGMENTER FAILURES	PILOT PERFORMANCE AGARD-405 N63-19111 18-15
NASA-TH-0-1552 N63-10181 01-1	14 AND THE PROPERTY OF THE PARTY OF THE PART
ANGULAR MOTION DETECTION BY HUMAN PILOTS AND APPLICATION TO SPACE RENDEZVOUS CONTROL	PENETRATION OF THUNDERSTORM BY AIRCRAFT FLYING AT SUPERSONIC SPEED - AIRCRAFT EQUIPMENT AND PILOT PERFORMANCE N63-19174 18-04
NASA-TN-D-1498 N63-10626 02-1	RADAR PHOTOGRAPHS AND GUST LOADS IN THREE STORMS
CONING MOTIONS OF THE FINAL STAGES OF THREE NASA SCOUT DEVELOPMENT VEHICLES	N63-19175 18-21
NASA-TN-D-1396 N63-10795 02-3	PILOT REACTION TO HIGH SPEED ROTATION - HUMAN
EFFECT OF HELICOPTER DYNAMICS ON PILOT PERFORMANC OF STEEP DESCENT INSTRUMENT APPROACHES IN	W. a.
TURBULENCE AERONAUTICAL ENG. REPT600 N63-11445 03-0	CITY I TOUT DACKEDOUND WIGHT DESCENTION
PILOT PERFORMANCE - MA-8 MISSION N63-11994 05-3	N63-20690 20-14
AUDIOLOGY EXAMINATIONS OF AIRCRAFT PILOTS	ASTRONAUT PERFORMANCE DURING MERCURY PROJECT N63-21968 22-14
SAM-TOR-62-127 N63-12463 06-1 EFFECTS OF MANUAL ATTACK-DISPLAY NOISE FILTERING	PILOT PERFORMANCE IN ESTIMATION OF AIRCRAFT RANGE
ON PILOT TRACKING PERFORMANCE NACA-RM-A58E21 N63-12504 06-0	
STRESS RESPONSES OF PILOTS FLYING 6-HOUR MISSIONS	SINGLE DEGREE OF FREEDOM ATTITUDE CONTROL SYSTEM
OVERWATER IN F-104 AIRCRAFT SAM-TDR-62-112 N63-12738 06-1	PILOT-INDUCED OSCILLATIONS IN T-38 AIRCRAFT
SIMULATED PILOT PERFORMANCE OF REMDEZVOUS BETWEEN SPACECRAFT AND COMMANDED HODULE OF LOW THRUST	Alvaded la Poly annual recover ser van previou pre venint
NASA-TN-0-1613 N63-13790 09-1 CONTROL PROBLEMS IN VIOL AIRCRAFT FLIGHT AND	RESULTS OF PILOT WARNING INSTRUMENT /PMI/ EVALUATION N63-22653 23-15
PILOTED SIMULATOR USE N63-14700 10-0	HANDLING QUALITIES THEORY DERIVED FROM PILOT-

ING -04

ION MAN

Y -10

-14 NE TS -12

-14

-14

-14

D -14

-23

-14

-15 AT -04 S

-14 -14 -14 -14

14

15

VEHICLE SYSTEM CONSIDERATIONS	N63-23264	24-14	EQUAL MASS - FINAL STATE INTERACTION N63-19408	19-24
SPATIAL DISORIENTATION, PILOT P	M42-23458	ND 24-14	HYDROGEN BUBBLE CHAMBER STUDY OF INTERACTION PROTONS OF POSITIVE PIONS IN 300 MEY KINET! ENERGY RANGE	
ILOT PLANT			CERN-63-27 N63-21177	21-23
SHAGING OF URANIUM DIOXIDE EUR-117-E	N63-12644	06-17	HIGH ENERGY PHYSICS AND NUCLEAR STRUCTURE - COMPLEX NUCLEI, HIGH ENERGY ELECTRON SCATTE	RING.
DESIGN AND OPERATIONAL PERFORMA VAPORIZATION FACILITY			PIONS, NUCLEONS, DEUTERONS, AND NUONS CERN-63-28 N63-21196	21-23
MASA-TN-D-1661	N63-15695	12-27	CAPTURE OF NEGATIVE PIONS FROM REST BY LIGH	T THE STREET
INCH EFFECT CONTROLLED THERMONUCLEAR RESEAR UCRL-10294	N49-20241	01-23	NUCLEI INVESTIGATED BY MEANS OF SHELL MODEL CALCULATION MYD-10278	
UCRL-10294	N63-10141	01-23	TOTAL TRANSPORT CONTRACTOR OF THE PROPERTY OF	TO A DAME
CHARACTERISTICS OF THE PINCH DI PLASMA ACCELERATOR ARS PAPER-2376-62	SCHARGE IN A	PULSED 01-24	TELESCOPE TO IDENTIFY ELECTRONS IN PRESENCE PION BACKGROUND CEN-63-25 N63-23049	24-15
MAGNETOHYDRODYNAMIC TURBULENCE DCAS-TDR-62-167		A 100 and	PROPOSED EXPERIMENTAL STUDY OF PI-PI MESON INTERACTION N63-23466	24-23
THE PARTY CO. LAW PROPERTY LAWS AND A STREET		02-24	SECURITY THAT SHOP WHEN DAILS HOT IN THE STREET	SHEEL
CURRENT LAYER DIFFUSION IN ONE- MAGNETIC PINCH EFFECT AT SURFAC ELECTRICALLY CONDUCTING GAS		16-11	PION CAPTURE FOR SHELL MODEL INVESTIGATIONS N63-23468	24-23
	THE LINE SHAPE S	10 (67)	PION BEAM	SPACE
NUCLEAR REACTIONS INDUCED BY PI EXCITATION FUNCTION EVIDENCE FO			DESIGN OF QUADRUPOLE CHANNEL TO CONTAIN EXT PARTICLE ACCELERATOR BEAM NYO-10251 N63-13320	OT-23
PARTICLE COLLISIONS IN NUCLEAR UCRL-10531		06-23	PION BEAM OF 150 MEV/C MOMENTUM ISS-63/27 N63-21487	22-23
DETECTION OF PHOTOPRODUCED MUON				
DOUBLE COINCIDENCE METHOD DISTE PIONS, AND ELECTRONS	NGUISHING MU	JONS,	PION-PION RESONANCES FROM PION-NUCLEON INEI	LASTIC
LNF-62-63	N63-12567	06-23	UCRL-10731 N63-23706	24-23
AREA SCANNING, LOOKING FOR MU-E DENIAL OF BACKWARD-FORWARD ASYM IN NUCLEAR EMULSIONS	NDS, LEADS T		PIONEER V LUMAR PROBE INTERPLANETARY MAGNETIC FIELD MEASURED BY I X, PIONEER V, AND MARINER II	EXPLORER
IN NOCLEAR ENGLSIONS	NG3-13942	03-23	SID-63-380 N63-21907	22-29
PHYSICS REPORT - BUBBLE CHAMBER PION, HEAVY 10N, S-MATRIX, ATOM X-RAY STUDY, INTERACTIONS	I, PARTICLE T	HEORY,	PIPE DETECTION OF CAVITATION MOISE IN A PIPELIM	E BY AN
UCRL-10572	N63-14080	09-23	ACCELEROMETER MATT-142 N63-10784	02-23
PION-PROTON ELASTIC SCATTERING	- PHASE SHIF	T	THE REPORT AND THE VISION OF STREET	CHARLES AL
ANALYSIS NYO-10257	N63-14809	11-23	CIRCULATION RATE EFFECTS ON HEAT EMISSION BOILLING OF LIQUIDS IN VERTICAL PIPES TIL/T-5306 N63-11168	IN THE 03-13
RADIATION HAZARDS OF PI AND HU		LOGICAL	A THE SECTION AGENT FOR A PROJECT CONTRACT OF THE SECTION OF THE S	PE SERVICE
EFFECTS AND SPACECRAFT SHIELDIN	N63-15159	11-16	LINE DISCONNECTS FOR URANIUM PROCESSING FAI ORNL-3389 N63-12989	
LOW NUCLEON HOMENTUN TRANSFER C	OLLISIONS -	PION-	ACOUSTIC FILTERS FOR ATTENUATING HOISE IN	LIQUID
PION INTERACTIONS UCRL-10703	N63-15889	13-23	PIPING DRL-A-202 N63-14398	10-23
POLARIZATION OF RECOIL PROTONS	IN PION-PROT	ON	ZERO-LEAKAGE CONNECTORS, FLANGES, GASKETS,	PIPES,
UCRL-10629	N63-16501	14-25	FOR LAUNCH VEHICLES NASA-CR-50560 N63-18494	17-17
EFFECT OF SINGLE PION EXCHANGE			ANNOTATED BIBLIOGRAPHY OF NONCIRCULAR PIPE	5.
PROTON PLUS PROTON YIELDS NEUTR PI-MESON UCRL-10718	N43-14871	ON PLUS	DUCTS, & FITTINGS - CONNECTORS BIB-6 N63-20051	19-11
INELASTIC COLLISION OF PIONS AN	D NUCLEONS	15-23	REFLECTOR PIPE FOR TRANSMITTING THERMAL EN FROM SOLAR COLLECTOR TO SPACECRAFT WITHOUT INTERMEDIATE CARMOT CYCLE LIMITED DEVICE	1(8)119
PI-MESON SCATTERING IN BUBBLE COUCRE-10563	HAMBER	15-23	PIPE FRICTION REDUCTION WITH NON-NEWTONIAN	POLYMEN
BEVATRON OPERATION - K INTERACT	OR A LANGE OF THE PARTY OF THE	OCEN	ADDITIVES N63-22620	23-07
POLARIZATION OF MU MESONS, PION MUON SCATTERING	BEAM INTERA	CTIONS,	PISTON EQUILIBRIUM PISTON TECHNIQUE FOR GAS GUN O	
WEAK INTERACTIONS BETWEEN BARYO	N AND PION	18-23	CP-607 N63-11926 INCLINED PISTON DEADNEIGHT PRESSURE GAUGE	CONTRACT.
NUP-63-8 NEUTRAL-PION PRODUCTION FROM PR		18-23	BM-RI-6149 NG3-11961 MAGNETIC INSULATION EXPERIMENTS WITH TRAVE	
COLLISIONS AT 735 MEV	NA 3-1 9401	10-23	MAGNETIC PISTON PLASMA ACCELERATOR	TENNE COM

HODEL OF NUCLEAR PARTICLE DECAY INTO 3 PIONS OF

COOLING SYSTEMS FOR INTERNAL COMBUSTION ENGINES -

PLANE ELECTROMAGNETIC WAYE SCATTERING BY PLASMA CYLINDER, SMALL AXIAL GRADIENTS, ARBITRARY RADIAL GRADIENTS OF ELECTRON DENSITY-NORMAL INCIDENCE

ARC-REH-3315 N63-17904 16-03 HEAT TRANSFER IN PISTON FILLED WITH LIQUID 17-13 WIND TUNNEL STABILITY TESTS ON CRUCIFORM FINNED BALLISTIC- & LIQUID-DRIVEN PISTON COMPRESSORS FOR PRODUCTION OF HIGH TEMPERATURE & HIGH DENSITY GAS ARL-63-167 2339 23-1 MODEL WITH FIXED & FREE SPINNING TAIL ASSEMBLIES -NORMAL FORCE OF DISTRIBUTION - PITCHING AND YAM TRANSONIC FLUTTER OF ALL-MOVABLE HORIZONTAL TAIL BENDING & PITCHING MOMENTS
NACA-RM-L56G06
NAS-20524
20-33 PISTON THEORY ACCURACY OF APPLYING LIMEAR PISTON THEORY TO CYLINDRICAL SHELLS - AERODYNAMIC PRESSURE UNDER PARALLEL FLOW DIHEDRAL HYDROFOIL FULLY VENTED SURFACE-PIERCING -HEAVING AND PITCHING MOTION IN LONG CRESTED IRREGULAR SEAS N63-15809 13-02 PITCH CONTROL AERODYNAMIC CHARACTERISTICS OF FLAPPING AND RIGID PROPELLER BLADES AND CYCLE PITCH CONTROL R-958 21-04 LIFT, PITCHING MOMENT AND DRAG MEASUREMENTS ON A HALF PLANE JINDIVIK TARGET AIRCRAFT N63-15771 13-03 TIME-OPTIMAL CONTROL THEORY APPLIED TO LAUNCH VEHICLE PITCH AND ATTITUDE CONTROL NASA-TN-D-1895 ARL/A-193 N63-22062 YAW & PITCH ANGLE TRANSDUCER - WIND TUNNEL & LABORATORY TESTS AT TRANSONIC AND SUPERSONIC LONGITUDINAL RANGE OF SPACE VEHICLE DURING REENTRY SPEEDS USING VARIABLE PITCH CONTROL, CONSTANT NSTANT ALTITUDE 23-02 15-30 NASA-TN-D-1811 LIFT COEFFICIENT & PITCHING MOMENT ON REVOLVING ELLIPSOID WITH NORMAL OSCILLATIONS LIGHTWEIGHT PITCH CONTROL FOR SPIN STABILIZED SPACE VEHICLES - FLIGHT TEST N63-22204 NASA-TN-D-1922 N63-18210 16-30 PITOT-STATIC TUBE PITCH CONTROLLER PITOT-STATIC TECHNIQUE FOR UPPER ATMOSPHERIC APPLICATION OF TIME OPTIMAL CONTROL TO A FLEXIBLE LAUNCH VEHICLE - PITCH CONTROLLER MEASUREMENTS N63-12144 05-12 ARS PAPER-2694-62 PITOT/STATIC TUBE ALTIMETER SYSTEMS FOR TRANSPORT APPLICATION OF TIME OPTIMAL CONTROL TO DESIGN OF PITCH-ATTITUDE CONTROLLER FOR A FLEXIBLE LAUNCH F-823-B N63-18671 17-04 VEHICLE NASA-CR-52287 N63-23802 UPPER-ATMOSPHERE STRUCTURE MEASUREMENT MADE WITH PITOT-STATIC TUBE N63-19677 19-12 PITCHING MOMENT
MEASUREMENT OF PITCHING-MOMENT DERIVATIVES FOR
RIGID TAPERED WINGS OF HEXAGONAL PLANFORM PROFILE DRAGS OF AIRFOILS DETERMINED BY USING PITOT-STATIC SYSTEM - FLUID DYNAMICS TRECOM-TR-63-34 N63-22914 OSCILLATING IN SUPERSONIC FLOW ARC-REM-3294 05-03 PITCH-UP EVALUATION AT HIGH SUBSONIC SPEEDS -POSSIBLE LIMITATIONS DUE TO WING-ASPECT-RATIO S FLIGHT PLAN PLAN POSITION INDICATOR /PPI/ VARIATIONS FIVE-DIMENSIONAL WEATHER RADAR - CAPPI AND GREY SCALE PHOTOGRAPH DISPLAY 07-02 N63-12976 WIND TUNNEL TEST RESULTS ON AGARD MODEL A - DRAG. 19-21 BASE PRESSURE, PRESSURE DISTRIBUTIONS, SKIN FRICTION DRAG, LIFT AND PITCH MOMENT RADIO DUCT /ABNORMAL MICROWAVE TRANSMISSION/ ON A WEATHER RADAR PLAN POSITION INDICATOR /PPI/ RSIC-38 N63-19721 19-21 MEASUREMENTS ON AGARD CALIBRATION MODEL C IN TRANSONIC SPEED RANGE - FIXED TRANSITION, BOUNDARY LAYER - PITCHING MOMENT N63-13512 08-02 PLANCK EQUATION PLANCKS RADIATION EQUATION INTEGRATED A TABLE 02-20 N63-10695 EFFECT OF LARGE STORE /NACELLE/ ON A SMEPT-WING HEAVY BOMBER - LATERAL FORCE AND PITCHING MOMENTS NACA-RM-L55E26A N63-13868 09-0 NONEQUILIBRIUM MOLECULAR GAS RADIATION - RADIATIVE TRANSFER EQUATION SOLUTIONS IN TERMS OF ABSORPTION COEFFICIENTS & PLANCK-LIKE ENERGY DISTRIBUTIONS 09-02 NORMAL/AXIAL FORCE AND PITCHING MOMENT CHARACTER OF BLUNT LOW FINENESS RATIO BODIES OF REVOLUTION AT MACH 3.55 NASA-TM-X-467 N63-13911 09-0 TR62-209A N63-14030 09-23 SA COMPLEX PLANE SA INTERLAMINAR PLANE CF FACE EFFECT OF GROUND PROXIMITY, WING-STALL PHENOMENA, PITCHING MOMENTS, AND POWER REQUIREMENTS ON VIOL CF SURFACE 10-04 THREE-BODY PROBLEM - A SYMMETRIC REPRESENTATION M63-14694 MOTION IN A PLANE N63-12085 TESTS AND DESIGN DIAGRAMS OF THREE-BLADED CONTROLLABLE PITCH PROPELLERS PROBLEM OF SKYWAVE FIELD FROM ELECTRIC DIPOLE ON N63-15233 11-34 19-23 INHOMOGENEOUS PLANE N63-19526 OSCILLATORY AERODYNAMIC DERIVATIVES FOR WING WITH CONTROL SURFACE - PITCH TRANSLATION AND ROTATION ARC-REM-3307 N63-15744 12-03 DIFFRACTION OF PLANE ELASTIC WAVES BY A CRACK, WITH APPLICATION TO A PROBLEM OF BRITTLE FRACTURE 10-25 MRC-294 N63-14476 COMPARISON OF STEADY-STATE AND SIX-DEGREE-OF-FREEDOM ANALYSIS OF PITCH-ROLL RESONANCE CONDITIONS FOR LONG SLENGER SDUNDING ROCKET NASA-TW-D-1816 N63-16792 MULTIPLE SCATTERING OF PLANE WAVES BY TWO ELLIPTIC CYLINDERS 15-32 MRC-316 N63-14509 10-20

NEASUREMENT OF PITCHING-MOMENT DERIVATIVES FOR BLUNT-NOSED AIRFOILS OSCILLATING IN TWO-DIMENSIONAL SUPERSONIC FLOW -03

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-02

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23

. 25

C

20

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	GASL-TR-317	N63-14608	10-24	BOUNDARY LAYER	N63-12580	06-21
	NONLINEAR THEORY OF PLANE TRAVEL NONLINEAR WAVE EQUATION SOLUTION APPROXIMATIONS	BY SUCCESSI	VE	Z-FUNCTION SOLUTIONS FOR NOTION ATMOSPHERE ENTRY FROM EQUATORIAL ROTATING PLANETS	ORBITS OF	
	RADC-TDR-63-333	N63-18649	17-09	NASA-TN-D-1555	N63-12686	06-29
	SCATTERING OF OBLIQUELY INCIDENT BY ELLIPTICAL DIELECTRIC CYLINDE USCEC-82-211	PLANE LIGHT RS N63-18910	44	MASA-SPONSORED SPACE RESEARCH - RELATIONSHIPS, MOON AND PLANETS, SATELLITE AND SPACE PROBE DATA R	AND ASTRONO	RTH-SUN DHY -
	OPTICAL BIREFRINGENCE ASSOCIATED OF A PLANE SHEAR WAVE IN A VISCO AROD-2231-8	WITH PROPAG ELASTIC MEDI N63-19044	UM	MANNED PLANETARY SPACE FLIGHT - IAS-PAPER-63-84	A STATE PRODUCTION OF THE	LYSIS
	DIRECTION OF MINIMUM ABSORPTION PLANE MAVE TRAVERSING HOMOGENEOU AFCRL-63-650	OF HOMOGENEO S IONOSPHERI N63-21202	C SLAB	CRAVITY - CRACE CCIENCE - MICIEN	R PHYSICS - N63-12967	07-23
	PERTURBATION SOLUTIONS FOR MONLI DIFFERENTIAL ACQUSTICAL EQUATION	NEAR PLANE W		RADIO LOCATION OF PLANET VENUS B APRIL 1961	Y SOVIET UNI N63-13022	
	AMRL-TDR-63-63	N63-21304	Month of	PLANET ILLUMINANCE - RANGE AND P JPL-TR-32-361		08-05
	SOLUTIONS OF NONLINEAR ACQUSTICA EQUATIONS BY FUNCTIONAL INTERREL DEPENDENT VARIABLES METHOD AMRL-TOR-63-64	ATIONSHIPS O N63-21333	iF	MAGNETIC FIELDS - INTERPLANETARY STELLAR, METEORIC AND GEOMAGNETI RM-3523-NASA		- Table
	PLANE WAVE PROPAGATION IN SEMI-I VISCOELASTIC ROD AND PROPAGATION WAVE FROM CYLINDRICAL CAVITY OF	OF CYLINDRI FINITE RADIU	CAL IS	LUNAR AND PLANETARY LABORATORY - INFRARED SPECTRA OF VENUS, AND S SPECTROMETER	PHOTOMETER, STELLAR N63-14008	09-05
	PLANE SHOCK WAVE INDUCED IN TARG	ET BY IMPACT		ACCURACY OF MANUAL OPTICAL THEOD THE CENTER OF A PLANETARY DISK	THE REPORT IS S.	
	FLAT PLATE ACCELERATED TO HIGH V EXPLOSIVE CHARGE	and the same of th		121-16-2-12	N63-14446	10-22
	DASA-1397 SHOCK WAVE INTERACTIONS AND STRO	ING SHOCKS -	PLANE	NAVY PROGRAM IN RADIO ASTRONOHY RADIATION, RADIO STARS, MASER DE RECEIVER TECHNOLOGY	EVELOPMENT. I	RADIO
	GASEOUS INTERFACE IN ELECTROMAGN SHOCK TUBE AROD-2303-4			SURFACE PHOTOMETRY OF PLANETARY AND INTERSTELLAR MATERIAL - ISOM MICRODENSITOMETER	PHOTES BY	COMME.
	AROD-2303-4 AMET A EARTH A JUPITER /PLANET/ A HARS /PLANET/ A MERGURY /PLANET/			RHEOLOGICAL BEHAVIOR OF AEROSOL SEDIMENTATION & VISCOSITY STABIL		
5	A VENUS	53-41-45		STERILIZATION OF UNMANNED LUNAR SPACECRAFT AGAINST EARTH MICROBI JPL-TR-32-325/REV./		S
	PHYSICS OF THE PLANETS CALCULATION OF EPHEMERIDES OF PL	JA STRAN SA		PERTURBATION OF HYPERBOLIC ORBIT AND ESCAPE HYPERBOLA FROM EARTH	BY OBLATE	Service .
	FROM INITIAL VALUES NASA-TN-D-1415	N63-10796	SUATE STA	JPL-TR-32-131	H63-15281	12-29
	NUCLEAR ELECTRIC SPACE-BUS FOR P	LANETARY LAN	IDING	TEMPERATURE OF CENTRAL STARS	N63-16199	13-05
	ARS PAPER-2390-62 INTERNAL CONSTITUTION OF THE INN	ER PLANETS	454	INSTRUMENTATION FOR OBSERVATIONS FAR INFRARED - FERROELECTRIC BOL RADIATION PYROMETERS		
		N63-10948	100	EXPOSURE OF EARTH SATELLITES TO	ALBEDO AND	PLANET
	METEOROLOGY, ELECTROMAGNETIC WAY SCIENCE, PLASMA PHYSICS, SOLAR A STUDIES	ND PLANETARY	Max 49	RADIATION - SECONDARY RADIATION AEDC-TOR-63-92		
	AFCRL-62-714	N63-11223	Q3-01	EFFECT OF PLANETARY PERTURBATION EVOLUTION OF METEORS - STUDY OF	PERSEID AND N63-16663	
	PLANETARY POSITION - VELOCITY EP PERTURBATIONS ARS PAPER-2602-62	Actor State At 1.25		ORIONID STREAMS ORBIT-LAUNCH NUCLEAR DESIGN AND	PERFORMANCE	M-20
	METABOLIC, ECOLOGIC, AND GENETIC TERRESTRIAL MICROORGANISMS UNDER	PROCESSES I		EVALUATION PROCEDURE FOR ESCAPE MISSION MTP-PEVE-F-62-11	NO PLANETA	AY 14-30
	PHYSICAL PROPERTIES OF THE MOON		03-29	STELLAR & PLANETARY OBSERVATIONS MADE BY PORTABLE INFRARED TELESC	COPE & PHOTO	DHS METER
	AR-26-JPL	N63-11407	03-29	UTILIZING MERCURY DOPED GERMANIA	M63-16703	14-29
	MAGNETIC FIELD OF THE MOON AND P RM-3140-NASA	N63-12040	05-29	ORBIT LAUNCHED NUCLEAR VEHICLE I	SESTON AND	AND
	TEST CASE OF DRIGIN OF GIANT PLA		05-05	PLANETARY HISSION NASA-TH-D-1570	H63-16986	15-34
	THREE-DIMENSIONAL STRUCTURE OF P	LANETARY		ENVIRONMENT OF PLANETS IN SOLAR MARS AND VENUS	VICTORY TAX BAT	
	BOUNDARY LAYER - HICRONETEOROLOG	Y, TURBULENT	430	P-2640	H63-19338	79-59

PL

PI

PI

	COMPUTER PROGRAM FOR PLANETARY PERTURBA COMPUTATIONS USING HANSEN THEORY NASA-TN-D-1898 N63-19		PLANETARY AERONOMY - ABSOLUTE INTENSITY OF V ULTRAVIOLET RADIATION MEASURED BY PHOTOIONIZ. TECHNIQUE	ATION
	DERIVATION OF PHYSICAL CONSTANTS FROM R TRACKING OF MARINER II - PLANETARY MASS ASTRONONICAL UNITS		GCA-TR-63-3-N N63-17316 PLANETARY AERONOMY - ROLE OF INTERPLANETARY IN PLANETARY ATMOSPHERES - SODIUM IN ATMOSPH	DEBRIS
		498 20-32	OF EARTH, VENUS AND MARS GCA-TR-63-4-N N63-17317	15-12
	TELESCOPE WITH CASSEGRAIN OPTICS - INFR SPECTRUM AND POLARIMETRY STUDIES OF SAT MOON, ASTEROIDS, AND PLANETS AFCRL-63-864 N63-20	ELLITES.	EXPERIMENTAL AND THEORETICAL STUDIES OF PLAN AERONOMY AND ATMOSPHERES IN VACUUM ULTRAVIOLI GCA-TR-63-12-N	
	REFRACTORY TELESCOPES FOR PLANETARY OBS ASTRONOMY N63-21		PLANETARY AERONOMY - ULTRAVIOLET ABSORPTION SULFUR DIOXIDE - DISSOCIATION ENERGIES OF SU	
	ROLE OF CRYSTAL GROWTH IN FORMATION OF COMETS AND ASTEROIDS N63-21		DIOXIDE AND SULFUR OXIDE GCA-TR-63-13-N N63-17320	15-07
	PLANETARY & INTERPLANETARY ENVIRONMENT SYSTEM. PLANETS & THEIR SATELLITES. RAD		RADIATIVE HEAT TRANSFER IN PLANETARY ATMOSPH MITH IMPERFECT SCATTERING R-143-PR N63-17664	
	SPACE DEBRIS HAZARDS NASA-CR-52076 N63-22			
	SATELLITE GEODESY AND PLANETARY GEOMETR AFCR1-63-876 N63-23	Y	NASA PROGRAM PLANNING - ASTRONOMY, SOLAR PHY- PLANETARY ATMOSPHERES, IONOSPHERES, BIOSCIEN PLANETOLOGY NASA-TH-X-50138 N63-18313	
	PROPOSED EXPERIMENTS FOR GRAVITATIONAL	- BANNY A	PHYSICAL PROPERTIES OF HOON & PLANETS - PLAN	
	DECAY - IMPLICATIONS FOR PLANETARY & ST N63-23	ELLAR AGES	ATHOSPHERES, RADIOMETRY, REENTRY AND ORBIT CALCULATIONS NASA-CR-50576 H63-18334	17-29
	MAGNETIC FIELDS OF EARTH & PLANETS N63-23	524 24-29	GAS EXCHANGE BETWEEN PLANETARY AND EARTH	11-27
P	LANETARY ATMOSPHERE SA MARS ATMOSPHERE		ATMOSPHERES - INTERPLANETARY GAS STUDY N63-18437	17-05
	SA VENUS ATMOSPHERE ENTRY OF SPACE VEHICLES INTO PLANETARY RAD-TM-62-20, PT. 1 N63-10	ATHOSPHERES	THERMAL PROTECTION BY ABLATING MATERIALS IN SIMULATED PLANETARY ATMOSPHERIC ENTRY R63SD35 M63-19020	18-13
	HEATING UPON ENTRY INTO PLANETARY ATMOS SUPERCIRCULAR ORBITING VELOCITIES N63-11	AGITACTISA TOTAL	THERNOCHENICAL EFFECTS OF FUREIGN PLANETARY ATMOSPHERES UPON LAMINAR HEAT TRANSFER IN HYPERSONIC STAGNATION REGION - GAS DYNAMICS	
	STUDY OF PLANETARY ATMOSPHERES BY STELL	AR	NASA-CR-50882 N63-19949	19-13
	OCCULTATION RM-3279-JPL N63-11	322 03-05	AMALYTIC EXPRESSION FOR DENSITY DISTRIBUTION PLANETARY EXOSPHERE MASA-RP-15 N63-21075	21-12
	MOLECULAR SPECTROSCOPY OF PLANETARY ATM VENUS AND MARS N63-12		HEAT TRANSFER ON HYPERSONIC VEHICLE ENTERING	172.77
	FLUORESCENT SCATTERING IN PLANETARY ATM APRT II, COUPLING AMONG TRANSITIONS		PLANETARY ATMOSPHERE AIAA PAPER 63-450 N63-23185	24-13
		167 07-28 168 07-29	PLANETARY CIRCULATIONS PROJECT EODY HEAT AND DENSITY TRANSPORT ACROSS THE G STREAM - PLANETARY CIRCULATIONS PROJECT AFCRL-63-671 N63-20477	ULF 20-21
	FLUORESCENT SCATTERING IN PLANETARY ATM	OSPHERES -	PLANETARY ENTRY	16-18
	PHYSICS OF PLANETS - INTERNAL STRUCTURE	179 07-29 . SURFACES.	RADIATIVE ENERGY TRANSFER ON ENTRY INTO MARS VENUS ATMOSPHERE ARF-1200-3 N63-10142	01-29
	AND ATMOSPHERES - MERCURY, VENUS, MARS, AND SATURN	MAKE COLUMN	HEATING UPON ENTRY INTO PLANETARY ATHOSPHERE	S FROM
	A CONTRACTOR OF THE PROPERTY O	280 13-23	SUPERCIRCULAR ORBITING VELOCITIES N63-11071	03-33
	ELECTRON TEMPERATURE IN IGNOSPHERE FROM ULTRAVIOLET RADIATION GCA-TR-62-11-N N63-17:	121.031.03	AERODYNAMIC STABILITY OF PLANETARY ENTRY-VEH JPL-TR-32-338 N63-11237	ICLES 03-02
	PLANETARY AERONOMY - SOLAR FLUX INCIDENT ATMOSPHERES OF EARTH AND NEIGHBORING PL SPECTRAL REGION 50 TO 3000-A		STRUCTURES FOR SPACE SCIENCE - WINGED VEHICLE PLANETARY ENTRY VEHICLES, CONFIGURATION AND NASA-SP-28 NO3-11518	ES, DESIGN 03-34
	GCA-TR-62-14-N N63-17: PLANETARY AERONOMY - COMPILATION OF ABSI SPECTRUM OF SOLAR VACUUM ULTRAVIOLET RAI ATMOSPHERIC GASES	ORPTION	PLANETARY ENTRY RESEARCH FOR MARS AND VENUS, EQUILIBRIUM THERMOCHEMISTRY, DISSOCIATION, H TRANSFER, SHOCK TUBES, VENUS IONOSPHERE T15-R62-SD-84	1962- EAT
	GCA-TR-62-15-N N63-17	313 15-07	MARS ATMOSPHERE ENTRY STUDY	
	PLANETARY AERONOMY - ATMOSPHERIC AIRGLOI SIDE OF VENUS	340.4 × 34	NASA-CR-52271 N63-23806 PLANETARY EXPLORATION	24-29
	PLANETARY AERONOMY - ATOMIC SHIELDING FA		PLANETARY EXPLORATION LUNAR AND PLANETARY SCIENCES IN SPACE EXPLOR NASA-SP-14 N63-11504	ATION 03-29
	CHANGES IN ATOMIC CHARGE DISTRIBUTION IN INTERACTION WITH MAGNETIC FIELD GCA-TR-83-2-N N63-17:	915 15-23	LAUNCH VEHICLES AND SPACECRAFT FOR EXPLORATION NO. 1976	

UH -07 RIS -12 RY -01 R -07

-05 S, -29 RY -29

-05

-13

-13

-12

-13

-21

-29 HOS -33 S -02

GN -34 2-29 29

N 29

F-01

SPACE SCIENCE - PHOBOS SPACE STATION FOR MARS EXPLORATION PRIOR TO MANNED SPACE FLIGHT TO MARS	NASA-TT-F-165 NASTY BET ME WOTTA, N63-19862 19-29
N63-16014 13-29	PLANFORM THREE-DIMENSIONAL MEASUREMENTS OF SYMMETRICAL
MODEL ATMOSPHERE OF MARS FOR ATMOSPHERIC ENTRY ENGINEERING STUDY - PLANETARY EXPLORATION P-2639	WINGS OF VARIOUS PLANFORMS IN SUPERSONIC FLOW MGL PAPER-12 M63-10010 Q1-03
LUNAR AND PLANETARY EXPLORATION - EXOBIOLOGY AND	HOYER PERFORMANCE OF A RAM-WING GROUND EFFECT
BIOLOGICAL EFFECTS OF RADIATION N63-19478 19-16	DTMB-AERO-1015 N63-10285 01-04
SPACE SCIENCE - LUNAR AND PLANETARY EXPLORATION - NASA PROGRAM N63-21129 21-32	MEASUREMENT OF PITCHING-NOMENT DERIVATIVES FOR RIGID TAPERED WINGS OF HEXAGONAL PLANFORM OSCILLATING IN SUPERSONIC FLOW
BIBLIOGRAPHY OF ASTRONAUTICS INFORMATION - ENGINEERING EQUIPMENT AND PROCESSES ADAPTABLE TO LUMAR AND PLANETARY EXPLORATION	ARC-REM-3294 N63-12128 05-03 STATIC STABILITY OF SQUARE AND CIRCULAR PLANFORM REENTRY VEHICLES AT MACH 3-11 - EFFECTS OF
NASA-CR-50966 ANG3-21479 22-29	CONTROLS AND LEADING-EDGE EXTENSIONS NASA-TH-X-272 N63-12916 07-02
PHYSICS OF BALLOONS & THEIR POSSIBLE USE AS MARS EXPLORATION VEHICLES	NUMERICAL LIFTING-SURFACE METHOD TO CALCULATE
NASA-CR-51782 N63-22880 23-29	DIRECT GUST FORCES AND MOMENTS ON WINGS AT SUBSONIC SPEEDS
RATIONAL PROGRAM FOR PLANETARY EXPLORATION USING SPACE PROBES OF INCREASING SOPHISTICATION -	NASA-TN-D-1501 N63-12927 07-03
MERCURY, VENUS, AND MARS DATA REVIEW N63-23449 24-29	FLUTTER INVESTIGATION OF VERY LOW ASPECT—RATIO FLAT—PLATE SURFACES AT SUBSONIC AND SUPERSONIC SPEED
LAMETARY-INTERPLANETARY PROGRAM SPACE PROGRAMS SUMMARY NO. 37-17 - VOL 6, JULY TO	NASA-TM-X-53 GRUFF CO CALIFORNIA M63-12952 107-33
OCT 1962 - SPACE EXPLORATION PROGRAMS & SPACE SCIENCES JPL-SPS-37-17, VOL. VI N63-10334 01-29	EFFECTS OF MING-CRANK, LEADING-EDGE CHORD EXTENSIONS & HORIZONTAL-TAIL HEIGHT ON LONGITUDINAL STABILITY OF SMEPT-MING MODELS
SPACE PROGRAMS SUMMARY NO. 37-18 - VOL 6, SEPT TO	NASA-TH-X-92 NASA-12980 07-02
DEC 1962 - SPACE EXPLORATION PROGRAMS & SPACE SCIENCES JPL-SPS-37-18, VOL. VI N63-12341 05-29	AERODYMAMIC CHARACTERISTICS OF RECTAMBULAR PLANFORM, ALL-MOVABLE CONTROLS COMBINED WITH SLENDER BODY OF REVOLUTION AT MACH 3 TO 6.25
DESIGN OF UNMANNED SPACECRAFT FOR PLANETARY AND	NACA-RH-A55J07 (1) Accessed to N63-13114 2 07-03
INTERPLANETARY EXPLORATION - STERILIZATION - HEAT SHIELDS IAS PAPER-63-36 N63-12890 07-32	MAXIMUM CROSS SECTIONAL AREA EFFECT ON DELTA WING MAYE DRAG AND PRESSURE DISTRIBUTION ARC-CP-606 N63-13541 08-03
SPACE PROGRAMS SUMMARY NO. 37-20 - VOL VI, JAN TO MAR 1963 - SPACE EXPLORATION PROGRAM & SPACE SCIENCES	STABILITY DERIVATIVES FOR TAPERED WINGS OF HEXAGONAL PLANFORM OSCILLATING IN SUPERSONIC STREAM
JPL-SPS-37-20, VOL. VI N63-17003 15-29 LAMETARY SPACECRAFT	ARC-REM-3290 NAME NOS-15742 12-03 WING PLANFORM EFFECT ON STATIC LONGITUDINAL
STERILIZATION OF UNMANNED PLANETARY AND LUNAR SPACE VEHICLES	AERODYNAMIC CHARACTERISTICS OF FLAT TOP HYPERSONIC AIRCRAFT AT TRANSONIC SPEEDS
JPL-TR-32-325 N63-13440 08-16	NASA-TH-X-364 - N63-16138 13-04
STERILIZATION OF UNMANNED LUNAR AND PLANETARY SPACECRAFT AGAINST EARTH MICROBIAL ORGANISMS JPL-TR-32-325/REV-/ N63-15243 11-32	VERTICAL TAKEOFF AND LANDING PLANFORM - JET THRUST AND GROUND EFFECT - SHORT SC.1 AIRCRAFT ARC-REM-3913 - 15-04
ORBIT LAUNCHED NUCLEAR VEHICLE DESIGN AND PERFORMANCE EVALUATION PROCEDURE FOR ESCAPE AND PLANETARY MISSION	AERODYMAMIC AND HYDRODYMAMIC CHARACTERISTICS OF PROPOSED SUPERSONIC MULTIJET SEAPLANE WITH VARIABLE INCIDENCE WING
NASA-TN-0-1570 NASA-16986 15-34	NASA-TH-X-249 DAMES NO 23 13 30 N63-17254 15-02
SYSTEMS CHECKDUT AND FLIGHT TESTING OF UNMANNED LUNAR AND PLANETARY SPACECRAFT	PLANING SURFACE CF CONTROL SURFACE
N63-17030 15-32 ELECTRIC PROPULSION REQUIREMENTS FOR PLANETARY AND	PLANISPHERE
INTERPLANETARY SPACECRAFT N63-17258 15-27	PLANISPHERE FOR SATELLITE ORBIT PLOTTING ON CELESTIAL SPHERE N63-13353 08-29
LAMETARY SURFACE RADAR STUDIES OF PLANETARY SURFACES N63-10227 01-12	SATELLITE PLANISPHERE AND SATELLITE OBSERVATION N63-15209 11-32
RADAR METHODS OF STUDYING PLANETARY SURFACES N63-10228 01-05	SATELLITE PLANISPHERE N63-15210 11-32
PHYSICS OF PLANETS - INTERNAL STRUCTURE, SURFACES, AND ATMOSPHERES - MERCURY, VENUS, MARS, JUPITER.	PLANNING S NAMAGEMENT PLANNING CF MANAGEMENT CF OPERATIONS RESEARCH
AND SATURN AFCRL-63-457 N63-16280 13-23	ACCELERATION PRPECTS ON NUMBER OF HIGHER
DECELERATION DURING SPACECRAFT DESCENT FROM ORBIT TO EARTH AND PLANETARY SURFACE N63-18435 17-32	SA PILOT PLANT CP BOTANY CF TREE
PHYSICAL CONDITIONS ON MARS - SURFACE AND ATMOSPHERE	PROBLEMS OF PHOTOSYNTHESIS AEC-TR-4501 N63-10210 01-07
The state of the s	

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STL EOU POFT

04-01

EFFECT OF ILLUMINATION ON THE T	RANSFORMATION	OF
FTD-TT-62-1203/162	N63-10306	
EFFECT OF COSMIC RADIATION ON P FTD-TT-62-771/16264	N63-10308	
INJURY AND RECOVERY OF PHOTOSYN DEVELOPMENT - TEMPERATURE EFFEC		CELL
	N63-11192	03-16
ENDOGENOUS METABOLISM IN ALGAE	N63-11193	03-16
CARBON DIOXIDE AND BICARBONATE ALGAE	N63-11194	ION - 03-16
EFFECTS OF STEROIDS IN CHLORELL	A N63-11195	03-16
LIGHT CONVERSION IN PHOTOSYNTHE	SIS - PLANT E N63-11471	NERGY 03-16
STRUCTURE OF THE PHOTOCHEMICAL PHOTOSYNTHESIS	APPARATUS IN N63-11472	03-16
OXYGEN EVOLUTION IN PHOTOSYNTHE	SIS N63-11473	03-16
REQUIREMENTS AND FUNCTIONS OF M		BY
GREEN PLANTS WITH RESPECT TO PHI	N63-11474	03-16
PLANTS FOR CLOSED ECOLOGICAL SYS FOOD - GAS EXCHANGE		03-16
BIOLOGICAL PROBLEMS OF LUNAR BAS CLOSED ECOLOGICAL SYSTEMS	SE - PLANTS - N63-11476	
EFFECT OF ATMOSPHERIC PRESSURE, PARTIAL PRESSURE OF NITROGEN ON	PLANT GROWTH	03-16
PLANT GROWTH AND DEVELOPMENT IN GRAVITATIONAL, MAGNETIC, AND ELI	ECTRICAL FIELD	os 03-16
TRANSFER OF WATER FROM SOIL TO A RELATED TO SOIL PROPERTIES, PLAP AND WEATHER		
PLANTS AS GAS EXCHANGE MECHANISM		07-14
AMRL-TDR-62-127 CHLOROPLASTS ISOLATED FROM PLANT	N63-13142	
ARTIFICIAL PHOTOSYNTHESIS	N63-13178	
SCREENING - PLANT AND ANIHAL BRE	EDING - SAMPL	ING
IRC-368	N63-13333	08-20
PHOTOSYNTHETIC PROPERTIES OF SPI LAMELLAE SUB-UNITS	N63-14633	10-16
HYDROPONICS - SOILLESS CULTURE (OF PLANTS N63-14986	
OPTIMUM LIGHTING OF LEAVES - PHO	TOSYNTHESIS N63-16152	13-16
ENERGY BUDGET AT EARTH SURFACE -	HERGY AND N	14-16
PLANT TRANSPIRATION AND ENVIRONM	N63-17594	16-16
NERGY AND MASS TRANSFERS NEAR T NFLUENCE OF SOIL-PLANT-ATMOSPHE	HE GROUND - RE SYSTEM N63-18827	
CCELERATION EFFECTS ON BEHAVIOR	OF HIGHER	
PLANTS - PLAGIOGEOTROPISM PHYSIOLOGY OF PLANTS GROWN IN PA	N63-19494	19-16 TO
PLANT GROWTH IN SPACECRAFT ABOVE SPACE BIOLOGY		971.0
PACE BIOLOGY		

PHOTOREACTIVATION IN PLANT ORGA		
BIOLOGY	N63-21529	
AUXIN TRANSPORT IN PLANT PHYSIO ENZYMATIC PROCESS OF EPINASTY		
CH-MI CHEST CHANGE CONTRACTOR	N63-21644	22-16
SPECTROPHOTOMETRIC ANALYSIS OF CHLOROPHYLL AND OTHER PLANT PIG FTD-TT-63-866/162		
		SETES
GENERAL AND COMPARATIVE BIOLOGY ORGANISMS UNDER EXPERIMENTAL ST NASA-CR-52082		DNS
ASHA A COLLISIONLESS PLASHA		
A ELECTRON PLASMA A ELECTROSTATIC PLASMA		
A HIGH TEMPERATURE PLASMA		
A HYDROGEN PLASMA A MAGNETOIONIC PLASMA		
A MAGNETOPLASMA		
A NONEGUILIBRIUM PLASMA		
A SOLAR PLASMA A THERMAL PLASMA		
F HYDROMAGNETISM		
F MAGNETOHYDRODYNAMICS PLASMA IN INTERPLANETARY SPACE		
WGL PAPER-1	N63-10001	01-29
CONTROLLED THERMONUCLEAR RESEAR UCRL-10294	CH N63-10141	01-23
SPECTROSCOPY, NUCLEAR MAGNETIC	RESONANCE, PI	LASHA
DYNAMICS, COMMUNICATIONS ENGINE	ERING N63-10165	
USE OF MAGNETICALLY COMPRESSED	PLASMA IN A	
STELLARATOR MATT-133		01-24
MAGNETIC FIELDS IN SPACE	N63-10427	
LOW-TEMPERATURE THERMIONIC PLAS		
CON-TEMPERATURE THERMIUNIC PLAS	N63-10452	01-06
PLASMA DYNAMICS - POINT CHARGES	, INDIVIDUAL	ION
MOTION, TRANSPORT EQUATIONS, MAUURL-6879		
DISSIPATION IN HIGH TEMPERATURE AMP-93	PLASMAS N63-10618	02-24
RADIO FREQUENCY TRANSMISSION THE GENERATED IN NOSE REGION OF HIG		
TO-AIR MISSILE	N63-10687	02-08
ELECTROMAGNETIC WAVE PROPAGATION PLASMA	N IN WEAKLY 1	OZ-24
PLASHA THERMOCOUPLE, RADIATION : POWDER METALLURGY		
LAHS-2796	11122/12422	02-15
THE BOUNDARY BETWEEN A MAGNETIC	FIELD AND A N63-10897	PLASMA 02-12
DYNAMIC PROPERTIES OF LANGHUIR	PROBES IN GAS	SEOUS
PLASMA ARL-62-417	N63-11009	03-24
INTERACTION BETWEEN A PLASMA AND UCRL-6947-T	D A TRAVELING	03-24
OPTICAL INTERFEROMETRY FOR PLASS SSO-TOR-62-155	MA DIAGNOSTIO N63-11331	S 03-11
DOWNRANGE ANTIMISSILE MEASUREME		
EFFECTS OF PLASMA AND WAKE ON R. MAGNETIC PROPAGATION	ADAR ELECTRO-	- JRJ3A

RESEARCH IN ELECTROMAGNETICS, PLASMA PHYSICS, SOLID STATE, MICROWAVE CIRCUITS, CONTROL SYSTEMS R-452-22-62 N63-11687 04-0

LANGHUIR PROBE FOR STELLARATOR PLASHA RESEARCH

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1

4 9 6

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B D 4

MATT-139	N63-11705	04-24	AFCRL-63-82	N63-15685	12-24
MAGNETIC FIELDS IN DIAGNOSTI GASES - PROBING PLASMA SHEET TDR-169/3153/TR-1		NI ZED 05-15	EQUILIBRIUM OF ARGON PLASMA IN PRESSURE ARC-JET AERONAUTICAL ENG. REPT645		13-11
SEEDED PLASMA - CHEMICAL AND	IONIZATION PROC	ESSES.	ELECTROMAGNETIC WAVE PROPAGATIO	PART FAMILI	THE OWNER OF THE PERSON NAMED IN
PLASMA PROPERTIES USING MICH		06-24	COLUMNS IN MAGNETIC FIELDS AFCRL-63-81	N63-16310	13-24
MEASURING ELECTRICAL CONDUCT	IVITY OF PLASMA	HITH	COHERENT ELECTROMAGNETIC RADIAT	ION FROM ELE	TRON
MAGNETIC PROBE	N63-12748	06-15	BEAM STIMULATED PLASMA RADC-TDR-63-135	N63-16436	14-24
ABSORPTION OF ELECTROMAGNETI CLASSICAL PLASMAS	COLLY SOUTH THE PARTY OF	Sul Jane	INTERACTION BETWEEN PLASMA AND	TRAVELING MA	SNETIC
MATT-159	N63-12791	06-24	UCRL-7253	N63-16565	14-24
INVESTIGATION BY KINETIC DES MAGNETIC ABSORPTION COEFFICI IN MAGNETIC FIELD	ENT IN QUANTUM PI	LASHA	GATED MICROWAVE RADIOMETER FOR TEMPERATURE DURING PLASMA AFTER		
MATT-163	N63-12792	06-24	PLASMA RES. LAB. TECH. REPT.7	N63-16886	14-15
RUNAWAY DOMINATED STELLARATO NATT-164	R DISCHARGES N63-12793	06-24	MAGNETIC ANALYZER FOR PLASMA DI	M42-14044	BER 14-23
BNL CONFERENCE PAPERS - HIGH SYNCHRONTRON, PHASOTRON, CYC BNL-767/C-36/			HEATING MECHANISM FOR PLASMA UCRL-7294	M42-17071	15-20
RADIATIVE RECOMBINATION OF C		ASHA	KINETIC EQUATIONS FOR GASES IN		LOS -
TCREC-TR-62-82	N63-12933	07-24	PLASMAS THE ARAPPAS TO THE TOTAL TOT		- None
FAST GAS VALVE FOR PLASMA EX PLASMA CURRENT SHEET DYNAMIC	N63-12960	07-23	SURFACE WAVE PROPAGATION IN ANI SLABS - ELECTROMAGNETIC FIELDS PIBMRI-1151-63	SOTROPIC DIE	LECTRIC LASMAS
FUCTOR COACE BROWN CTON	N63-12961	07-24	SYMMETRIZATION OF MODEL C STELL	ARATOR BY	15-24
HYDROGEN-OXYGEN COMBUSTION C	HAMBER STUDY OF	нот	CALCULATING EFFECT OF COIL DISP FLUX CLOSURE		8"200
SEEDED PLASMA BY PROBE A-12	N63-12965	07-24	HATT-192	N63-17398	15-24
PLASMA WAVEGUIDE CELL FOR AF	M42 13000	07-15	MOLECULAR BAND ABSORPTION IN TH OF POTASSIUM AND SODIUM VAPORS ARC AND PLASMA SYSTEM		ERATURE
DAMPING OF QUANTIZED LONGITU			ARL-63-37	N63-17462	15-18
OSCILLATIONS IN NONDEGENERAL		07-24	MICROWAVE PLASMA PROBE FOR STUD PLASMAS AND INERT GASES	10000000000000000000000000000000000000	REFARE
STABILITY OF RELATIVISTIC PA	RTICLE BEAM PASS	ING	AFCRL-63-123	DEPENDENT ME 12	15-24
THROUGH PLASMA LA-2802	N63-13668	08-24	EQUILIBRIUM OF CURRENT CARRYING VIRIAL THEOREM MATT-191		ASMA -
EXCITATION OF WAVES IN WARM	PLASMA BY ELECTR	IC	THE REST TO STATE OF STREET AND		STREET,
DIPOLE USCEC-82-205	N63-13853	09-24	SPACE CHARGE WAVES IN PLASMA - ENERGY LEVEL	H 3137Y58ET6	
PLASMA FREQUENCY AND ELECTRO CHARTS FOR HYPERSONIC VEHICL			NSF-TR-4 COUETTE AND STAGNATION BOUNDARY	24 19 MY 3317	16-24 OF
FIELDS IN AIR TR62-209C	N63-14193	09-24	PLASMAS TOR-169/3230-12/TN-2	ATELEM PRES	16-24
	to the year shares	000000	EMISSION AND ABSORPTION OF RADI	THE RESERVED AND THE	PR THE STATE
HICROWAVE PROBE AS A PLASMA ITS APPLICATION TO IONIZATIO TR62-2090			IONIZED PLASMA IN PRESENCE OF PARL-63-62	AGNETIC FIEL	
KINETIC EQUATIONS OF PLASMA STATE FACTORS	DYNAMICS - DYNAM N63-14388	1C 10-24	WAVE PROPAGATION IN MAGNETOACTI AFCRL-63-642	VE PLASHA H63-17901	16-24
INTERACTION OF ELECTROMAGNET IONIZED GAS IN EXTERNAL MAGN	ETIC FIELD	TIALLY 10-24	TRANSVERSE WAVES IN A PLASHA IN	N63-17953	16-24
TWO-PARTICLE CORRELATION FU	N63-14389 ICTION FOR UNSTAB	ZALDERE LE	EXTENSION AND DEVICE IMPROVEMENTS	N BEAN DEVIC	VE ES,
PLASHA HATT-175	N63-14999	11-24	SOLID STATE DEVICES, AND PLASMA	M63-18701	17-09
MICROWAVE REFLECTION BY NONE EXPONENTIAL ELECTRON DISTRIE R62SD47	UTION	TH 11-24	MICROWAVE PLASMA MEASUREMENTS ! WAVE THEORY AND MEASURING PLASM MICROWAVE SPECTRUM STUDY	OR VERIFICAT IA PARAMETERS N63-18714	10H OF
		and a second	LANDAU DAMPING OF ACQUSTIC VIBI		ASHAS -
EQUILIBRIUM OF CURRENT CARRY	ING TOROLDAL PLA	SMA -			THE RESERVE AND ADDRESS OF THE PARTY OF THE
OR WILLIAM ARTERS OF THE BUTY		11-24	CESIUM AND POTASSIUM PLASMAS MATT-177	N63-18741	17-24
EQUILIBRIUM OF CURRENT CARRY EXPERIMENT WITH MODEL C-STEL	LARATOR N63-15028	ALL AND		N63-18741	

P

ENERGY TRANSFER IN DENSE PLASMA TRANSPORT PROPERTY AND RADIATION		AYER	PLASMA ACCELERATOR ARS PAPER-2376-62 N63-10	531 01-24
	N63-19350	18-24	CROSSED-FIELD PLASMA ACCELERATOR	Mari I (G49)
HARMONIC GENERATION IN PLASMAS RADC-TDR-63-288	N63-19928	19-24	ARS PAPER-2633-62 N63-11	
RADIATION PATTERN OF AN ANTENNA	ARRAY IMMERS	ED IN	MAGNETOHYDRODYNAMIC PROPULSION AND POWE GENERATION	1012
DISSIPATIVE MEDIA - LOSSY DIELEC	N63-20302	MA 20-08	R63SD5 N63-12	682 06-24
MICROWAVE MEASUREMENTS OF PLASMA AFCRL-63-161	PROPERTIES N63-20335	20-24	ELECTRODELESS PULSED PLASMA PROPULSION AGN-AN-759 N63-13	757 08~21
BOLTZMANN EQUATION EXPRESSIONS FO	R FLECTRIC		MOTION OF PLASMA RING THROUGH VARIOUS TO MAGNETIC-WAVE PLASMA ACCELERATORS	RAVELING
CURRENT IN PLASMA AT LOW DENSITY		FIELD 20-24	NASA-TN-D-1636 N63-15	
DECAY OF NITROGEN PLASMAS IN HYP	RSONIC FLOW	USING	MAGNETIC INSULATION EXPERIMENTS WITH TR MAGNETIC PISTON PLASMA ACCELERATOR	
LOW-DENSITY NOZZLE USCEC-81-101	N63-20764	21-24	SSD-TOR-63-72 N63-17	101-1748
STABILITY OF SINGLE HUMP VELOCITY			PLASMA ACCELERATORS FOR SPACECRAFT PROP INTERACTION AND LOSS MECHANISMS	7777
COLLISIONLESS HOT PLASMA WITHOUT EXPRESSED AS INTEGRAL EQUATION		ELD	TDR-169/3713-01/TR-1 N63-18	247 17-24
	N63-21356	22-24	PLASMA ANALYZER OPTICAL INTERFEROMETRY AS APPLIED TO PL	ASHA
RESONANCES AND WAVES IN ONE- AND PLASMAS SUBJECTED TO INTENSE MAG	ETIC FIELDS	Name of the last o	DIAGNOSTICS TDR-269/4280-20/-1 N63-22	507 23-24
NASA-CR-50855	N63-21998	22-24	PLASMA ARC	
PLASMA IN INTERPLANETARY SPACE - TEMPORAL DISTRIBUTION AND PLASMA NASA-TN-D-1901		22-29	CF ARC CHAMBER CHARACTERIZATION AND SIMULATION CAPABIL HIGH TEMPERATURE ARC FACILITY	ITIES OF A
PLASMA PROPERTIES IN REGION NEAR	1000		ASD-TDR-62-461 N63-10	148 01-10
ANDDE SURROUNDING HELIUM ARC PLA: FIELD, CURRENT DENSITY AND TEMPE	MA - ELECTR	10	PLASMA PROPERTIES PERTAINING TO ARC-JET PROPELLANTS ASD-TDR-62-451 N63-11	- cluster
ARL-63-166	N63-22146	ED T.		TOTAL STREET
ELECTROMAGNETIC WAVE PROPAGATION BIBLIOGRAPHY LMSC SB-61-56	N63-22352	23-24	GAS RECOMBINATION EFFECTS ON SUPERSONIC JET NOZZLE FLOW FR-012-844 N63-11	1,30,100
EIGENVALUES ASSOCIATED WITH PART		ON OF	MEASUREMENT OF ARGON TRANSITION USING T PLASMA AS RADIATION SOURCE N63-11	
TREATMENT OF IONIZATION NASA-TN-D-1111			ION DENSITY AND TEMPERATURE OF WATER ST PLASMA ARC FROM OBSERVATIONS OF HYDROGE	
MEASUREMENT OF STAGNATION POINT I PLASMAS IN MAGNETIC FIELD - ERROR	ANALYSIS		AND HYDROGEN GAMMA LINE PROFILES ARC-CP-614 N63-17	145 15-20
LAMINAR AND TURBULENT MIXING OF	N63-23489 FIELD-FREE P N63-23490	24-24 LASMA 24-24	MOLECULAR BAND ABSORPTION IN THE VISIBL OF POTASSIUM AND SODIUM VAPORS IN HIGH ARC AND PLASMA SYSTEM	
DRESSED PARTICLE MODEL FOR COMPU		SHORT	ARL-63-37 N63-17	462 15-1
RANGE PARTICLE COLLISION EFFECTS PROPERTIES IN PLASHA VIDYA-101			CESIUM VAPOR ARC DISCHARGE PLASMA - RES RADIATION, LIFETIME, VOLT-AMPÈRE CHARAC AND THERMIONIC EMERGY CONVERSION	
	100 2 3 2 2 3 2 2 1 1 1 1 1	Mark Na	NASA-CR-51574 N63-22	247 23-2
NITROGEN PLASMA AFTERGLOW - MICRO AND MICROWAVE CAVITY MEASUREMENT		74114	COMBUSTION RATE OF GRAPHITE EXPOSED TO	PLASMA ARC
MASA-TN-0-2226	N63-23653	24-24	FLOW SSD-TDR-63-193 N63-22	940 23-2
CONSTANCY OF TANGENTIAL RUPTURE FTD-TT-63-182/162	N63-23734	PLASMA 24-24	FIRST PLASMA ARC SEMINAR OF THE THERMOM	ECHANICS
LASMA ACCELERATION REVISED THEORY OF AURORAL BOMBAR	MENT		RESEARCH LABORATORY ARL-63-151 N63-23	471 24-2
	N63-13032	07-12	RADIATION FROM ARC HEATED PLASMA - HIGH TEMPERATURE NITROGEN N63-23	
PLASMA ACCELERATION BY HALL EFFE FORCE BY KINETIC THEORY	T - ACCELER N63-17516		DESIGN AND ENVIRONMENTAL TESTS OF NOSE	CAPS IN
PROPELLANTS FOR CROSSED FIELD MA- ACCELERATION - PLASMA TEMPERATUR	BY PHOTOGR		ER-1115-25 N63-23	669 24-0
MEASUREMENT NSL-62-149-2	N63-18077	16-24	PLASMA CLOUD IN MOTION AS RADIO EMITTIN	
PLASMA ACCELERATION BY TRAVELING		ETIC	OF THE SUN N63-11	15/52/01
MAVES ARL-63-84	N63-20766	21-19	ELECTROMAGNETIC RADIATION DUE TO RADIAL CONDUCTING SPHERE IN MAGNETIC FIELD - P	LASMA CLOU
PLASMA ACCELERATION BY TRAVELING	M42 22470		EXPANSION APPLICATIONS N63-18 PLASMA COMPOSITION	17,120,141,141
LASMA ACCELERATOR CHARACTERISTICS OF THE PINCH DIS			PLASMA COMPOSITION IN THE PLUME OF A SO PROPELLANT ROCKET ENGINE CONTAINING CES AND POTASSIUM NITRATE	

-24 -24

-24 -27

-24

-11

-24

-24

A -10 ID -26 ARC -24 RC -07 INE

-20 UH -18 s. -24 RC -24

-24 -24

-02

17E -05

OF OUD -24

ATE

PL

PL

PL

PLA

RAD-TH-63-14	N63-19186	18-27	SOLAR PLASMA DATA FROM MARINER II	SPACE PROBE	DE H
EARLY RANGER INTERPLANETARY PLASE	A EXPERIMEN N63-19538	TS 19-32	JPL-TH-33-111	N63-17226	15-29
IJAN COMPOCITATIO	4-2817 HOL		TWO METER MACH-ZEHNDER INTERFEROM DENSITY MEASUREMENTS		
HIGH-FREQUENCY PLASMA CONDUCTIVIT FIELD - MAGNETOHYDRODYNAMICS	Y IN A MAGN	ETIC	LA-2940	N63-22377	23-24
MATT-166	N63-13488	08-24	INTERACTION OF HIGH INTENSITY ELE- FIELD OF MICROWAVE FREQUENCY WITH		
MICROWAVE GAS BREAKDOWN WITH EMPH NANOSECOND PULSE BREAKDOWN - PLAS EFFECT ON ELECTROMAGNETIC PROPAGA	MA CONDUCTI		PLASMA RADC-TDR-63-240	N63-22404	23-24
RADC-TDR-62-616	N63-15095	11-24	POWER SCATTERED FROM DENSITY FLUC PLASMA - INCOHERENT SCATTERING OF		
TRANSPORT THEORY OF FULLY IONIZED PLASMA - THERMOCONDUCTIVITY, POTE STABILITY		ENT &	IONOSPHERE SEL-63-066	N63-22677	23-24
	N63-19910	19-24	X-RAY DENSITOMETER FOR USE IN PLA AIAA PAPER 63-387		24-24
THERMODYNAMIC MODEL OF CONDUCTIVE IN PLASMAS AND SEMICONDUCTORS - P NASA-TM-X-50236			PLASMA DISCHARGE LANGMUIR PROBE DATA OF CURRENT-VO CHARACTERISTICS INSIDE KAUFMAN-TY	LTAGE	1034 1034
MAGNETOHYDRODYNAMIC POWER GENERAL CONDUCTIVITY STUDIES	TION - PLASH	A	PLASHA DISCHARGE	BASCHMITTE A PON	17-27
PWA-2133	N63-21244	21-24	PLASHA FLOW - STORE HE MERCHAIN CHE HOS	what was a ward	144
LEAKAGE CURRENT BETWEEN ELECTRODE GAS PLASMA	N63-22689	23-24	ISOTHERMAL ACCELERATION OF A UNE- PLASMA FLOW IN EXTERNAL TRANSVERS ELECTRICAL FIELDS	E MAGNETIC	AND
ASMA CONFINEMENT LECTURES ON FUSION POWER - PLASMA	CONFINENCE	ir.	FTD-TT-62-1186/16264	N63-10347	01-24
MATT-145	N63-10319	01-24	A CLOSED LOOP MAGNETOHYDRODYNAMIC CESIUM SEEDED HELIUM FLOW	DEVICE WITH	H 03-24
MODEL C STELLARATOR	A CONFINEMEN	IT IN	MAGNETIC FIELD OF LINE CURRENT IN	TRANSVERSE	06-51
MATT-171	N63-16958	14-24	RAREFIED PLASMA STREAM MASA-TH-D-1951	N63-12949	07-24
MULTIPOLAR CUSP MAGNETIC FIELD AV CONFINEMENT AND ADIABATIC COMPRES MATT-185			DYNAMIC NONLINEAR WAVE PROPAGATIO MEDIA - PART 7 - PLASMA WAVES IN		
FAST-ION GAUGE FOR MEASURING NEUT			COLD STREAM US-32	N63-13643	08-24
NEAR MAGNETICALLY CONFINED PLASM MODERATOR GRIDS MATT-203	N63-22997	23-24	RESEARCH SUMMARY ON GASDYNAMICS A USCEC-83-101	ND PLASMADY	NAMICS 10-11
ASMA CYLINDER WAVE SCATTERING IN HONOGENEOUS AN PLASMA CYLINDERS WITH CALCULATION PRESSURE TERM TO EXPRESS ELECTRON	ND INHOMOGER NS USING A S	CALAR	POISSON AND FREE MOLECULE FLUX EC CURRENT IN PROBE TO CHARGED PARTI PLASMA FLOW		
TR62-209L	ALL PROPERTY.	09-24	MICROMAVE PROPAGATION IN FLOWING PRESENCE OF MAGNETIC FIELD	PLASMA IN N63-14392	10-24
DETERMINATION OF ELECTRON DENSIT' FREQUENCY OF PLASMA CYLINDER BY I SCATTERING OF MICROWAVES RR-TR-63-14			PINCH EFFECT OF AN AXIAL MAGNETIC CONTINUOUS FLOW OF PLASMA IN A CO DIVERGENT NOZZLE		10-24
HICROWAVE SCATTERING FROM CYLIND			FREE STREAM PROPERTIES OF HYPERSO		200,34
PLASMA, SEEDED WITH SODIUM, POTA: ARL-63-159	N63-22500	23-24	MONEQUILIBRIUM FLOW, AND ELECTRIC SHOCK TUNNEL PLASMA FLOW	RAS THEN NOT S	· 是数年 DA
CYLINDRICAL PLASMA LONG-WAVELENG	TH CHARGE		R63SD27	N63-15194	11-24
OSCILLATIONS DI-82-0255	N63-22837	23-24	DIRECT FLOW VELOCITY MEASUREMENTS		
ASHA DECAY	PATTOPPARTET LIP		NASA-TN-D-1783	N63-15501	12-24
ATOMIC MOMENTUM TRANSFER COLLIST DECAYING PLASMA IN HELIUM-KRYPTO	N AND HELTU		MAGNETOGASDYNAMICS RESEARCH - STI AND IONIZED GAS FLOW PRODUCED BY INFLUENCE OF ELECTRIC AND MAGNET	SHOCK TUBES	FLOW
R-171	N63-19348	18-24	AD-283026	N63-16917	14-24
ATOMIC PROCESSES GOVERNING DECAY HYDROGEN PLASMA			ELECTRIC ENERGY AND SHOCK WAVES, PLASHA FLOW	SHOCK TUBES N63-17432	AND 15-1
UCRL-10849	N63-20898	21-24	PLASMA-VEHICLE INTERACTION IN A	PLASHA STREET	M
ASMA DENSITY LABORATORY SIMULATION STUDIES OF	OUTER SPAC	MORT CRESS	AIAA-PAPER-63055	N63-20344	20-2
PHENOMENA - PLASMA DENSITY, DIPO		06-24	AXISYMMETRIC HYDROMAGNETIC WAVES CARRYING PLASMA COLUMN WITH NONU		GAR.
ELECTROMAGNETIC WAVE SCATTERING	- PLASMA DE	NSITY	DENSITY DISTRIBUTION AGES-63-7	N63-21462	22-2
PROFILE - SCATTERING AND ABSORPT AFESD-TDR-62-249			MAGNETOHYDRODYNAMIC EQUATION FOR		1100 -
PARALLEL PLATE PLASMA CAPACITOR	- IMPEDANCE	PLASHA	PLASHA FLOW		13.86
DENSITY AND PERTURBATION 01-82-0173	N63-16930	14-24	RAREFIED GAS DYNAMICS - TECHNIQUE CHARGED PARTICLE DENSITY AND TEN		明松

MEASUREMENT IN FLOWING PLASMA STREAMS N63-21591 22-24	DESIGNED TO YIELD HIGH DENSITY ELECTRON BEAMS RADC-TDR-63-345 N63-21238 21-09
RAREFIED GAS DYNAMICS - USE OF LANGMUIR PROBE IN LOW DEMSITY PLASMA FLOW N63-21612 22-24	PLASMA HEATING MAGNETOHYDRODYNAMIC SHEAR HEATING AT INTERFACE OF TWO ROTATING PLASMAS N63-10517 01-24
PLASHA FLUX MEASUREMENT	THE RESERVE OF THE PROPERTY OF
INTERPLANETARY MAGNETIC FIELD AND PLASMA FLUX MEASUREMENTS BY EXPLORER X SATELLITE N63-17114 15-12	HIGH TEMPERATURE RESEARCH FACILITY - ELECTRIC ARC PLASMA HEATED HYPERSONIC WIND TUNNEL AT-7 N63-15376 12-10
AUTOMATIC SYSTEM FOR MEASURING MICROWAVE PHASE	PLASHA JET
SHIFT - PLASMA FLUX MEASUREMENT AFCRL-63-155 N63-19422 19-24	SPECTROGRAPHIC INVESTIGATION OF TEMPERATURES IN A PLASMA JET ARC TUNNEL
PLASMA GENERATION	PA-TM-1001 N63-10087 01-26
DIRECT CURRENT EXPERIMENT ON LOW PRESSURE PLASMA IONIZATION NASA-TW-D-1659 N63-14805 11-24	CHARACTERIZATION AND SIMULATION CAPABILITIES OF A HIGH TEMPERATURE ARC FACILITY ASD-TOR-62-461 N63-10148 01-10
11 - 11 - 11 - 11 - 11 - 11 - 11 - 11	
ELECTRON BEAM AND SOLID STATE DEVICES - PLASMA WAVES AND PLASMA GENERATION MOL-Q3 N63-15029 11-09	MAGNETOHYORODYNAMIC EDDIES & PLASMAJETS AS ACCELERATORS FOR SOLAR PARTICLES JPRS-16590 02-29
PLASMA GENERATION BY SEMICONDUCTOR CRYSTAL IN	RADIATIVE DECAY OF METASTABLE ARGON ATOMS IN LON-
MAGNETIC FIELD N63-16365 14-25	DENSITY ARGON PLASMA STREAM AEDC-TDR-63-5 N63-11973 05-24
PLASMA GENERATION AND MEASUREMENTS - LANGMUIR PROBES AND MICROWAVE RESONANT CAVITY FOR MERCURY	LOW DENSITY ARC HEATED WIND TUNNEL UTILIZING ARGON
ARC DISCHARGE - MICROWAVE SPECTRUM	AND NITROGEN AASU-227 N63-13984 09-10
N63-18713 17-24	
DCX-2 APPARATUS - PLASMA GENERATION BY INJECTION AND DISSOCIATION OF 600-KEV HYDROGEN MOLECULAR IDNS IN MAGNETIC MIRROR FIELD	SPECTROGRAPHY IN PLASMA JET ANALYSIS - CONICAL SUPERSONIC NOZZLE USING ARGON OR NITROGEN SC-4776/RR/ N63-14752 11-24
ORNL-3325 N63-19148 18-24	LANGMUIR PROBE AND VELOCITY MEASUREMENTS IN PLASMA
HIGH POWER BEAM PLASMA AMPLIFIER - TESTING AND LARGE SIGNAL ANALYSIS N63-23409 24-24	JET - EFFECT OF IONIZATION AND DISSOCIATION ON NOZZLE FLOW 12-24
PLASHA GENERATOR	INFRARED SPECTRA AND TEMPERATURE DISTRIBUTIONS OF
THERMONUCLEAR DEVICES - PICKET FENCE, GAS GUN, PLASMA LENS, PLASMA GENERATORS	ARGON AND NITROGEN PLASMA JETS ARL-63-35 N63-16512 14-24
LAMS-2874 N63-14530 10-24	The state of the s
PLASMA PHYSICS - HIGH TEMPERATURE PLASMA DEVICE, IONIZATION, CESIUM PLASMA, ELECTRON PLASMA, AND PLASMA SPECTRUM N63-15469 12-24	INORGANIC AND ORGANIC HIGH TEMPERATURE PLASMAJET REACTIONS - PHOSPHORUS COMPOUNDS AND HYDROCARBONS PLR-119 N63-18630 17-24
	PLASMA ARC JET WITH ELECTROMAGNETIC STABILIZATION
CESIUM PLASMA GENERATOR - IONIZATION OF CESIUM ON HOT-TUNGSTEN PLATE MATT-168 N63-15477 12-24	FOR ASTRONAUTICAL USES N63-18919 18-27 PLASMA JET WELDING, COATING, AND CUTTING -
SPACE CHARGE EMISSION IN PLASMA MAGNETRON	BIBLIOGRAPHY SB-63-21 N63-22728 23-24
GENERATOR WITH SMOOTH-BORE ELECTRODES AFCRL-63-41 N63-15672 12-24	ANDDE HEAT TRANSFER FROM ELECTRIC ARC WITH
INDUCTION-COUPLED PLASMA GENERATOR	PLASMA JET CHARACTERISTICS N63-23474 24-24
GA-PHYS-62-2 N63-16935 14-24 HIGH POWER BEAM-PLASMA AMPLIFIER - SMALL SIGNAL &	SPECTROMETRY AND INFRARED MONOCHROMATIC RADIATION MEASUREMENTS OF PLASMA JET TEMPERATURES N63-23486 24-24
PRELIMINARY LARGE SIGNAL THEORIES	
N63-23408 24-24	PLASMA LAYER REFLECTION AND TRANSMISSION COEFFICIENTS FOR
IDENTIFICATION OF SPACE CHARGE REGION NEAR CARBON ARC CATHODE IN NITROGEN OR ARGON - PLASMA	PLASMA LAYER R-46 N63-16790 14-24
GENERATOR N63-23480 24-24	
PLASMA GUN INSTABILITIES IN A GAS-TRIGGERED COAXIAL PLASMA	ELECTROMAGNETIC ENERGY TRANSFER AT BOUNDARY OF HOMOGENEOUS PLASMA LAYER AND ATMOSPHERE AD-276705 14-24
GUN	NUMERICAL COMPUTATION OF TRANSMISSION & REFLECTION
ARS PAPER-2665-62 N63-11269 03-11 MODEL C STELLARATOR, SMALL DEVICE RESEARCH,	COEFFICIENTS OF INHOMOGENEOUS PLASMA LAYER - APPLICATION TO TELEMETRY PROBLEM IN REENTRY
THEORETICAL PLASMA PHYSICS MATT-Q-20 N63-14040 09-24	R-51 M63-20440 20-24
	FORTRAN COMPUTER PROGRAM FOR COMPUTING
CESIUM PLASMA GUNS OBTAINING BEAM-CURRENT DENSITY OF 100 A/SQ CM RADC-TOR-62-489 N63-14089 09-24	TRANSMISSION, REFLECTION, AND ABSORPTION COEFFICIENTS OF INHOMOGENEOUS PLASMA LAYER R-52 N63-23062 24-24
CESIUM VAPOR CATHODE TUBE - PLASMA GUN	PLASHA LOSS
RADC-TOR-63-138 N63-15921 13-24	DECREASE OF PLASMA LOSS IN STELLARATOR RESULTING
STRUCTURAL ANALYSIS OF PLASMOIDS GENERATED BY ELECTRODELESS PLASMA GUN	FROM PROBE-IMPOSED RADIAL ELECTRIC FIELD MATT-157 N63-15476 12-24
MATT-196 N63-17590 16-24 SYNTHESIS OF CESIUM PLASMA CATHODES & GUNS	PLASMA OSCILLATION ELECTROMAGNETIC RADIATION FROM PLASMA OSCILLATIONS AND NARROM-BAND RADIO BURSTS FROM THE SUN
STATISTIES OF CESTON PLASMA CATHODES & GONS	MAN HARROR-DAND KADIO BUK515 PRUM THE SUN

-09

DF -24 RC -10 A -26 A -10

-29 4--24 ON -10

-24 AM -24 F -24

15

N 27

24

24 ON 24

24

24 NS

N63-10211 01-05 INTEGRAL EQUATION OCCURRING IN PLASMA OSCILLATIONS N63-11431 03-20	MACROSCOPIC EQUATIONS GOVERNING INTERACTION OF ELECTROMAGNETIC WAYES WITH NONUNIFORM PLASMA FLOWS R625014 N63-12124 05-24
BOUNDARY VALUE PROBLEMS IN PLASMA OSCILLATIONS - ELECTROMAGNETIC RADIATION - COUPLING	LABORATORY SIMULATION STUDIES OF OUTER SPACE PHENOMENA - PLASMA DENSITY, DIPOLE MAGNET N63-12618 06-24
N63-11882 04-24 NONLINEAR LANDAU DAMPING OF OSCILLATIONS IN BOUNDED PLASMA	SEEDED PLASMA - CHEMICAL AND IONIZATION PROCESSES. PLASMA PROPERTIES USING MICROWAVE TECHNIQUES N63-12693 06-24
BN-301 N63-12042 05-24 PLASMA OSCILLATIONS AND PARTICLE TRAJECTORIES IN ELECTRON STREAM - PALMER DIAGRAMS	RADIO PHYSICS, PLASMA DYNAMICS, AND COMMUNICATION SCIENCE AND ENGINEERING N63-12831 06-09
IER SER. 60, ISSUE 458 N63-12734 06-24 GRAVITATIONAL INSTABILITY AND ONE-COMPONENT PLASMA OSCILLATIONS IN CHARGEO GAS - APPLICATION TO	PROPAGATION OF ELECTROSTATIC PLASMA WAVES IN INHOMOGENEOUS ELECTRIC FIELDS A-9 N63-12963 07-24
STELLAR SPECTRA HF-33 N63-12985 07-24	AIR COOLED 10 KILOGAUSS MAGNET FOR PLASMA RESEARCH N63-13070 07-24
OSCILLATING ELECTRON PLASMA SOURCE - POTENTIAL GRADIENTS	FLOW OF LOW VISCOSITY CONDUCTING FLUID IN A
ARL-62-471 N63-13963 09-24	JPL-TR-32-351 3 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
QUASI-LINEAR THEORY OF PLASMA OSCILLATIONS IN AN ELECTRIC FIELD - ANALYSIS	CONFERENCE ON PLASMA PHYSICS & CONTROLLED NUCLEAR FUSION RESEARCH, AUSTRIA - SEPT 1961
EFINS-63-16 N63-15935 13-24	- 13126 44214 24734048 MASH 2444044 ASTERNOO
COLLISION DAMPING OF PLASMA OSCILLATIONS N63-16446 14-24	PLASMA PHYSICS THERMONUCLEAR FUSION CONFERENCE - REPORTS AND AMSTRACTS - PART 2 N63-13127 07-24
DISPERSION AND DAMPING OF LONGITUDINAL ELECTRON	TOLYBERGAS OTHARYDOMNERS ON A ANDERSWEED MORE STREET
OSCILLATIONS IN THERMAL PLASMA NASA-TN-D-1734 N63-16711 14-24	COMPUTER SYSTEMS THEORY & PROGRAMMING, ELECTRONIC INSTRUMENTATION, SUPERCONDUCTORS & BREAKDOWN N63-13355 08-01
ELECTRON TRANSIT TIME IN LANGMUIR PROBE FOR SUPERIMPOSED OSCILLATING FREQUENCY POTENTIAL ABOVE ELECTRON PLASMA FREQUENCY NUP-63-9 N63-18025 16-24	PLASMA PHYSICS - DCX-1 AND DCX-2 PLASMA, VACUUM ARC, IONS, MAGNETICS AND SUPERCONDUCTIVITY ORNL-3392 N63-13458 08-23
PLASMA PERTURBATION PARALLEL PLATE PLASMA CAPACITOR - IMPEDANCE, DENSITY AND PERTURBATION	THERMOELECTRIC POWER OF FULLY IONIZED LOW TEMPERATURE PLASMA - SEEBECK COEFFICIENT OF ALKALI METAL PLASMAS
01-82-0173 N63-16930 14-24	VOITAIOAR ANAROSIA
PLASMA PHYSICS CF LIQUVILLE EQUATION CF MAGNETOHYDRODYNAMICS CF NUCLEAR PHYSICS	DYNAMIC NONLINEAR WAVE PROPAGATION IN IONIZED MEDIA - ELECTROMAGNETIC WAVE REFLECTION AFCRL-62-969 N63-13641 08-08
CF THERMODYNAMICS REENTRY PHYSICS, RAREFIED GASDYNAMICS, PLASMA PHYSICS, SPACE SCIENCES N63-10601 02-01	CHARACTERISTICS OF ELECTROMAGNETIC MAVE IN PRESENCE OF IONIZED MEDIUM - SMOCK FRONTS, CONTACT SUFFACES, AND PLASMA PROFILE RADC-TOR-03-18 N63-13817 09-24
PLASMA PHYSICS AND MAGNETOHYDRODYNAMICS -	\$415 th - \$17753-3-77
BIBLIOGRAPHY AD-271170 N63-10724 02-24	MODEL C STELLARATOR, SMALL DEVICE RESEARCH, THEORETICAL PLASMA PHYSICS MATT-Q-20 N63-14040 09-24
COLLISION FREQUENCY EFFECTS ON SCATTERING CROSS SECTIONS OF CYLINDRICAL PLASMA CONFIGURATIONS WITH RADIALLY VARYING ELECTRON DENSITY	RADIO PHYSICS - RESEARCH AND DEVELOPMENT N63-14658 10-08
N63-10732 02-24	* STOLENS THROUGHTON ON THEIR STANKS THE STANKS THROUGH STANKS TO SEE
METEOROLOGY, ELECTROMAGNETIC WAVES, AEROSPACE SCIENCE, PLASMA PHYSICS, SOLAR AND PLANETARY	RADIO PHYSICS - RADIO PROPAGATION, PLASMA PHYSICS, COMMUNICATIONS, SURVEILLANCE, AND ANTENNAS AFESD-TDR-62-116 N63-15973 13-08
STUDIES AFCRL-62-714 N63-11223 03-01	QUASI-LINEAR THEORY OF PLASMA OSCILLATIONS MATT-169. N63-16180 13-24
PLASHA PHYSICS - STELLARATOR, AFTERGLOW, DHMIC	TENDEMNET SECOND FOR PORT PLASER WASHING SERVICE.
MATT-Q-19 N63-11347 03-24	VACUUM ELECTRICAL BREAKDOWN - ELECTRIC VACUUM GYROSCOPE - COMPUTER PROGRAM - PLASMA PHYSICS N63-16273 13-01
NASA-UNIVERSITY CONFERENCE ON SPACE - NUCLEAR, CHENICAL AND ELECTRIC PROPULSION - AERODYNAMICS, GAS DYNAMICS AND PLASMA PHYSICS - VOL II NASA-SP-11, VOL. 2 NOS-11502 03-29	ATOMIC ENERGY RELEASED BY CONTROLLED PUSION REACTION - PLASMA, SOLID STATE & THEORETICAL PHYSICS
==04245149 ANZ4475.25823-A1356273-A0054-A00541-A0053140000000000000000000000000000000000	HUP-63-3 N63-16284 13-23
PLASMA PHYSICS AND MAGNETOHYDRODYNAMICS IN SPACE EXPLORATION NASA-SP-25 N63-11515 03-24	KINETIC THEORY OF WAVES IN WARM PLASMA EXCITED BY CURRENT SOURCE - ANTENNA RADIATION PATTERNS
TRANSVERSE MAGNETIC FIELD EFFECT ON EQUILIBRIUM	AFCRL-62-970 N63-16478 14-24
OF CURRENT CARRYING TOROLDAL PLASHA HATT-155 N63-11708 04-24	PLASMA THEORY - ELECTROMAGNETIC WAVE PROPAGATION - PLASMA SHEATHS RADC-TOR-02-260 N63-16920 14-24
INTERACTION BETWEEN ELECTROMAGNETIC FIELDS AND	THAN TO RECEIVE TO RELIGIOUS ASSESSMENT OF STATE
PLASMAS AFCRL-62-906 N63-11719 04-24	PLASMA THEORY OF LEWIS TYPE BONBARDMENT ION ENGINE N63-17659 16-24

THERMONUCLEAR EQUIPMENT FOR PLASMA RESEARCH LAMS-2916 N63-19182 18	BEAM DEFLECTION TECHNIQUE OF STUDYING REFRACTIVE INDEX OF PLASMA - OPTICAL PROBING OF PLASMA PRODUCED IN SHOCK TUBE
SALZHURG PLASMA PHYSICS CONFERENCE, SEPT 1961 - PLASMA BENAVIOR IN MAGNETIC FIELDS AND TRAPS AEC-TA-5589, BK. 1 N63-19193 18	AROD-2836-1 N63-22570 23-24
SALIBURG CONFERENCE ON PLASMA PHYSICS & CONTROL NUCLEAR FUSION, SEPT 1961	CF ELECTRIC PROPULSION
AEC-TR-5589, BK. 2 N63-19194 18	PLASMA PROPULSION - BIBLIOGRAPHY SB-62-20 N63-17638 16-24
SPACE, ATOMIC, NUCLEAR, AND PLASMA PHYSICS UCRL-10862 N63-19226 18	
ELECTROMIC AND PLASMA PHYSICS - IONIC COLLISION AROD-2802-5 19	FOR ACCELERATION OF GAS FOR PROPULSION
TIME VARIATIONS AND SOLAR MODULATIONS OF COSMIC RAYS USING FORBUSH DECREASES - PLASMA PHYSICS M63-20011 19	PLASMA RADIATION MICROMAYE RADIATION INTENSITY AT CYCLOTRON -28 RESONANCE IN COLD PLASMA - NEGATIVE TEMPERATURE IPPJ-6 N63-15867 13-24
NUCLEAR PHYSICS, BEAM AND PLASMA PHYSICS N63-20439 20	
RADIO PHYSICS, PLASHA DYNAHICS, COMMUNICATION SCIENCES AND ENGINEERING RESEARCH	PLASMA N63-19038 18-09
N63-20521 20 ELECTRIC VACUUM GYROSCOPE, PLASMA PHYSICS,	P-23 CONVERSION OF ELECTRIC ENERGY TO STRAIN ENERGY IN GLASS IRADIATED BY ELECTROMAGNETIC MAVES AND PLASMAS N63-19045 18-13
COMPUTER PROGRAM, HIGH MAGNETIC FIELD SUPER- COMDUCTOR, ELECTRONICS, AND DISARMAMENT RESEARC N63-20580 20	H PLASHA RESONANCE
PARTITION FUNCTIONS AND THERMODYNAMIC PROPERTIE OF ARGON PLASMA	
AEOC-TOR-43-146 N63-20657 20	-24 WAVE PROPAGATION DIRECTION ON PLASMA RESONANCES - RESONANT FREQUENCY SENSITIVITY TO
COMPOSITION PRODUCT SIMULATOR - PLASMA PHYSICS MATT-199 N63-21213 21	DEPARTURE FROM PURELY TRANSVERSE PROPAGATION NASA-TN-D-1875 N63-18652 17-24
SURVEILLANCE TECHNIQUES, RADIO PROPAGATION AND PLASMA PHYSICS - RESEARCH AND DEVELOPMENT REPOR IN RADIO PHYSICS N63-21297 21	T RADIATION THROUGH CYLINDRICAL PLASMA SHEATHS
MICADWAYE & PLASMA INTERACTION - THEORETICAL ST OF NONSTEADY ASPECTS OF PLASMA RESPONSE TO MICADWAYE RADIATION	PLASMA SHEATHS RADC-TDR-62-260 N63-16920 14-24
R635076 N63-22419 23	-24 SIGNAL LOSS DUE TO ATTENUATION AND REFLECTION BY
BEAM-PLASMA AMPLIFIER IN MILLIMETER MAYELENGTH RADC-TOR-63-368 23	INVISCID EQUILIBRIUM PLASMA SHEATH FOR SPHERICALLY BLUNTED CONES AT HYPERSONIC SPEEDS NASA-TN-0-1778 N63-18770 17-24
HARMONIC GENERATION IN MICRONAVE PLASMAS - THEO OF NONLINEAR DISCHARGE	RY RADIATION FIELD PRODUCED BY INFINITE SLOT IN
	-24 INFINITE CYLINDER SURROUNDED BY HOMGENEOUS PLASMA SHEATH N63-20293 20-24
AFCRL-63-322 N63-23059 24	
PINCH EFFECT OF AN AXIAL MAGNETIC FIELD ON A	
ACCIDENCE AND ELECTRIC PARTITION OF THE RESERVED OF THE PROPERTY OF THE PROPER	SHEATH NEAR A PLANE ELECTRODE BOUNDING A COLLISIONLESS PLASMA IN MAGNETIC FIELDS NASA-TN-D-1992 N63-22572 23-09
STRUCTURE OF A LARGE RADIUS PLASMA PINCH DISCHA FOR ACCELERATION OF GAS FOR PROPULSION N63-22020 22	FLIGHT INSTRUMENTATION FOR REENTRY PLASMA SHEATH24 INTERACTION OF IONIZED GAS WITH MAGNETIC FIELD FOR
PLASMA PROBE 1 15 AN ANTALY NO YROSHY PASME THERE	POWER AND ATTITUDE CONTROL
LANGMUIR PROBE NETHOD FOR PLASMA HAVING SMALL AMPLITUDE OSCILLATIONS - ELECTRON TEMPERATURE A ELECTRON DENSITY CONSIDERED	PRESENTA MINISTER STELLARLING, WITCH ONLY COMES
199J-4 N63-15661 12	
PROBE FOR MEASURING ELECTRICAL CONDUCTIVITY OF IONIZED GAS IN HYPERSONIC SHOCK TUBE NOL TR-62-184 N63-17625 16	TDR-169/3230-11/TN-12 N63-22567 23-24
PLASMA PROBE MEASUREMENTS OF INTERPLANETARY SPA	PLASMA PHYSICS — HIGH TEMPERATURE PLASMA DEVICE, IONIZATION, CESIUM PLASMA, ELECTRON PLASMA, AND PLASMA SPECTRUM N63-15469 12-24
SPHERICAL ELECTROSTATIC PROBES IN A SLIGHTLY	-24 SOVIET UNION PLASMA SPECTROSCOPY - BIBLIOGRAPHY AID-8-63-93 N63-19084 18-24
10NIZEO, COLLISION-DOMINATED GAS MATT-180 N63-19899 19	-24 SPECTAGSCOPIC OBSERVATIONS OF FULLY IONIZED BARIUM
VACUUM ULTRAVIOLET RADIATION AS PROBE OF RARE	PLASHA MATT-206 NG
AROD-2267-7 N63-21009 21	-24

E -24

-27 -24 RGE -24

-24

-09 IN -13

-24

-24

-24 N --24 Y -24

SMA -24 A -23

-09

H -FOR -24

-24

-24

-24

HUE

-24

PLASMA SPRAYING EFFECT ON PARTICLE-SUBSTRATE BONDING OF PLASMA- SPRAYED MATERIAL NASA-TN-D-1705 N63-2088 21-24	DISPERSION RELATIONSHIP FOR WAVES ON MOVING PLASMA AND BOUNDED, FINITE TEMPERATURE PLASMA IN ELECTROMAGNETIC FIELD AFCAL-63-195 N63-22384 23-24
REFRACTORY COMPOSITES - METAL COATING, HEAT RESISTANCE, AND PLASMA SPRAYING OHIC-184 N63-20994 21-19	PLASMOID STRUCTURAL AMALYSIS OF PLASMOIDS GENERATED BY ELECTRODELESS PLASMA GUN MATT-196 N63-17590 16-24
ILASMA STABILITY INSTABILITIES IN A PLASMA INJECTED INTO A BZ FIELD TDR-169/3210-02/TN-1 N63-10656 02-24	COLLECTIVE BEHAVIOR OF METALLIC-FREE ELECTRON GAS
PLASMA INSTABILITIES IN ONE-DIMENSIONAL PLASMAS MATT-152 N63-11706 04-24	PLASHONS IN HETAL R-68 H63-20950 21-25
MAGNETOSPHERIC INTERCHANGE INSTABILITY FOR 1024 IDEAL PLASMA CRSR-130 AV A MI 23112A M 90 220 N63-12033 05-24	PLASTIC S REINFORCEO PLASTIC CF COMPOSITE MATERIAL CF ELASTOMER
CONTROLLED THERMONUCLEAR RESEARCH REPORT UCRL-10607 N63-14600 10-24	CF POLYESTER DISCENSION AND LEADER AND THE TA
MAGNETOHYDRODYNAMICS - PLASMA STABILITY IN MAGNETIC FIELDS, THERMONUCLEAR ENERGY HARNESSIMG PIBMRI-1025-62 N83-14774 11-24	CF POLYMER CF POLYPROPYLENE CF POLYPROPYLE CF PO
COMPUTER PROGRAM OF PLASMA STABILITY WITH OME- DIMENSIONAL FLOW TRAJECTORY MATT-151 N63-14997 11-24	CF SYNTHETIC RESIN
DYNAMIC STABILIZATION OF PLASMA COLUMN BY RADIO FREQUENCY AZIMUTHAL MAGNETIC FIELD 108-15871 13-24	PLASTIC DEFORMATION CF CRYSTAL STRUCTURE DEFECT PLASTIC DEFORMATION AND FATIGUE CRACKS NAL-TR-28 N63-11911 04-93
MAGNETIC FIELD GRAVITATIONAL EFFECT ON PLASMA STABILITY - IDEAL MAGNETOHYDRODYNAMICS NUP-63-1 N63-16283 13-24	MECHANICAL BEHAVIOR OF SINGLE AND POLYCRYSTALLINE CESIUM BROWNE - MECHANISMS OF PLASTIC DEFORMATION
STABILITY OF PLASMAS IN MAGNETIC FIELDS	UCRL-10468 N63-11999 US-19 RECOMBINATION OF DISLOCATIONS IN GERMANUM
GRAVITATIONAL INSTABILITY OF PLASMA PLANE BOUNDARY IN MAGNETIC FIELD - PARTICLE COLLISION	PLASTIC DEFORMATION JPRS-17348 N69-12223 05-25
NUP-63-2 N63-19344 PLASMA STABILITY, PARTICLE ACCELERATION, VACUUM SYSTEMS, AND SUPERCONDUCTIVITY RESEARCH	SOVIET STUDIES ON METALLIC COMPOUNDS - CHEMISTRY OF YTTRIUM CARBIDES, AND PLASTIC DEFORMATION OF SOLID SOLUTIONS JPRS-17945 N69-12230 D5-07
ORNL-3472 N63-19842 19-24	MECHANISM OF PLASTIC DEFORMATION IN SOLID
TRANSPORT THEORY OF FULLY IONIZED POTASSIUM PLASMA - THERMOCONDUCTIVITY, POTENTIAL GRADIENT & STABILITY	SOLUTIONS - RELATIONSHIP OF RELAXATION CDEFFICIENT TO ALLOY HARDNESS AND RESISTANCE TO PLASTIC FLOW NO3-12232 05-07
HATT-204 N63-19910 19-24	ZONE REFINING OF CEMENTED TUNGSTEN-BASE ALLOYS -
CONVERGENT CLASSICAL KINETIC EQUATION FOR PLASMA	PLASTIC DEFORMATION THEORY WAL-TR-372/32-3-T1 N63-12376 06-18
NATT-158 N63-13504 08-24 CONTROLLED THERMONUCLEAR RESEARCH REPORT UCRL-10607 N63-14600 10-24	PLASTIC DEFORMATION OF CEMENTED ALLOYS - DUCTILITY OF TUNGSTEN FIBER-COPPER-NICKEL COMPOSITES IN TENSION AND COMPRESSION, EFFECT OF ADDITIVES
PLASHA WAYETULE BRUE AD INSINSHOAN WAYET BENEFIT OF	WAL-TR-372/32-3-T3 N63-12377 06-18
DYNAMIC MONLIMEAR WAVE PROPAGATION IN IONIZED MEDIA - PART 7 - PLASMA WAVES IN A HOMOGENEOUS COLD STREAM	PLASTIC DEFORMATION OF THIN SILVER BRAZED JOINTS IN SHEAR ASRL-TR-94-3
US-32 P DELEGER TO STEER BOT N63-13643 P 08-24	DATEMENT AL
ELECTRON BEAM AND SOLID STATE DEVICES - PLASMA HAVES AND PLASMA GENERATION	PLASTIC BEHAVIOR OF CONTROL SURFACES AND PLATES SUBJECTED TO AIR BLAST LOADING - AMALYSIS AND RESULTS FOR BEAM TYPE STRUCTURES
MDL-Q3	THE PERFURANCE OF PLASTICS MATERIALS IN A MICH
PLASMA WAVE EXCITATION BY LINE CURRENT MAGNETIC INDUCTION — RADIO COMMUNICATION WITH MISSILES AND SPACE VEHICLES AD-283830 M63-16914 14-24	TRANSITION THEORY OF ELASTIC-PLASTIC DEFORMATION APPLIED TO BENDING OF RECTANGULAR SHEET MRC-326 N63-14454 10-33
PLASMA MAYE PROPAGATION IN MAYEGUIDES AND MAYE INTERACTION WITH ELECTRON BEAMS FOR MILLIMETER WAVE SIGNAL GENERATORS N63-18712 17-24	PLASTIC DEFORMATION THEORY FOR CEMENTED ALLOYS - MAYERIALS FOR TUNGSTEN FIBER ROCKET NOZZLE MAYRIX, COPPER-MICKEL, SILICON, ALUMINUM & TITANIUM N63-15411 12-18
RADIATION BY PLASMA WAVES IN HOMOGENEOUS PLASMA — TRANSFORMATION OF PLASMA WAVES INTO ELECTRO- MAGNETIC RADIATION	PLASTIC STABILITY OF GEOMETRICALLY ORTHOTROPIC PLATES AND CYLINDRICAL SHELLS N63-15795 13-33
19PJ-905120-620-61100, 61711-01-01-063-18786 18-24	PLASTIC DEFORMATION OF CEMENTED ALLOYS - ZONE
NONLINEAR COUPLING GENERATOR NECHANISH FOR VERY LOW FREQUENCY PLASMA WAVES AFCRL-63-658 N63-20679 20-24	SHEEPING OF CEMENTED TUNGSTEN ALLOYS ARF-2102-24 H63-16192 13-18

NONLINEAR COUPLING GENERATOR RECHANISH FOR VERY LOW FREQUENCY PLASMA WAYES AFCRL-63-658 N63-20679 20-24

ORD-

PERI MEAS VAPI DP-

PERI HIGH AER

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01-01

N63-10419 01-01

- PLASTICS, X-RAYS, RADIOELEMENTS

PLASTIC DEFORMATION OF SODI	UM CHLORIDE BICRYSTAL
AT GRAIN BOUNDARY AROD-2916-1	jaja N63-17513 16-25
BLAST LOADING OF STRAIN RAT BEAMS - ELASTIC AND PLASTIC	E DEPENDENT CANTILEVER
BRL-1179 AGINES AGIOMZAIG	N63-17680 16-33
DEFORMATION THINNING IN PLA FRACTURE, AND RECRYSTALLIZA	STIC DEFORMATION. STION OF ZIRCONIUM N63-19790 19-18
SUBSTRUCTURE OF PLASTICALLY UCRL-10778	BOLVAMER, EVENSE (100
PROPAGATION OF ELASTIC AND	PLASTIC STRAIN PULSES
IN BOUNDED SOLIDS AROD-1325-17	31. N63-22745 23-23
PLASTIC DEFORMATION OF URAN FLOW BEHAVIOR OF URANIUM CA AT HIGH TEMPERATURES UNDER NAA-SR-8108	RBIDE SINGLE CRYSTALS
PLASTIC DESIGN PLASTIC DESIGN IN HIGH STRE BIBLIOGRAPHY OF STRUCTURAL FRITZ ENG. LAB297.3	N63-15332 12-33
PLASTIC FLOW CF CREEP LINEARIZATION IN PROBLEMS O	F FINITE PLASTIC FLOW
05. 30. 270/1-63/	N63-12582 06-33
PARAMETRIC STUDY OF HYPERVE THIN PLATES - VISCOPLASTIC DIT-125-3	LOCITY PERFORATION OF FLOW MODEL N63-17726 16-20
DESIGN CONFIGURATION IN MAN CAVITATION, OXIDATION, BOND PLASTIC FLOW	ING - IONIC CRYSTALS -
PLASTIC FLOW CAL-NM-1559-P-4	N63-17945 16-17
VISCOPLASTIC FLOW OF LONG TO DOMITT-1-24	HICK-WALLED CYLINDER N63-18202 16-33
DESIGN CRITERIA FOR ZERO-LE LAUNCH VEHICLES - PLASTIC F NASA-CR-50557	AKAGE CONNECTORS FOR LOW & FLANGE ROLLING N63-18390 17-17
CORRELATING PERCENT SHEAR-L ZONE SIZE IN BRITTLE FRACTUI PRACTICE	RE - THEORY AND
The City of the State of the St	N63-19782 19-33
STRESS CONCENTRATION EFFECT TENSILE DEFORMATION, AND PLAND METALS	
ASD-TOR-63-380	N63-20703 21-33
FORMULATION OF THEORY OF PLA	ASTIC MAVE PROPAGATION
CU-3-63-DNR-266/86/-CE	
CF MATERIALS SCIENCE	
POLYMERS, PLASTICS, SYNTHET	
CORL-SP-4-34	M63-10073 01-19
THE PERFORMANCE OF PLASTICS	
NAVWEPS-7390	M63-10110 01-18
POLYMERIZATION OF ROOM TEMPE	
RESINS NOLTR-62-1	N63-10111 . 01-19
ORGANIC COATING BY THE FLUID	
HEALTH HAZARDS AND TOXICITY	OF PLASTICS -
PLASIEC-3	M63-10163 01-19
EFFECTS OF SPACE ENVIRONMENT	25-1175-14A
PLASTEC-12	N63-10170 01-19

SUBJECT INDEX		
PLASTICS, ISOTOPE SEPARATION, RA	DIOELEMENTS,	
MLH-1129	N63-10419	N
PLASTICS RESEARCH - ISOTOPE SEPA PURIFICATION, AND REACTOR FUELS NLM-1133		2 2
REACTOR FUELS - PLASTICS, X-RAYS	, RADIOELEME	
REVIEW OF POLYMER AND PLASTIC MA		100
PERFORMANCE OF PLASTIC LAMINATES TEMPERATURES ASD-TDR-62-794	UNDER CRYDG	El
	IN A VACUUM N63-10625	1
FLUOROCARBON PLASTICS UNDER INFL ENVIRONMENTAL CONDITIONS		SI (
PLASTICS RESEARCH, ISOTOPES, RAN RADIOACTIVE ELEMENTS AND REACTOR MLH-1136	GER X-RAY SEI FUELS N63-11348	
PLASTICS RESEARCH, ADMESIVES, RE. RADIOACTIVE ELEMENTS AND ISOTOPE NLM-1137		-
PLASTICS RESEARCH, RADIOACTIVE E SEPARATION & PURIFICATION, REACT SENSORS	LEMENTS, ISOT OR FUELS, X-	RA
The second secon	N63-11350	-
LASER AS A LIGHT SOURCE FOR PHOTO SCATTERING FROM POLYMER FILMS ONR-TR-46	N63-11555	
PYROLYSIS OF PLASTICS IN HIGH VA	CUUM ARC IMAG	68
FURNACE AND AND A PROMITTED BATZI R62SD57 20(21110) 223(7429 - 0.	N63-11794	•
EFFECTS OF LOAD PULSE ON SHOCK AS CHARACTERISTICS OF VERMICULITE CO POLYURETHANE PLASTIC	ONCRETE AND	
DASA-1299	N63-12182	
AMES ATMOSPHERE ENTRY SIMULATOR OF ETERMINING CHARACTERISTICS OF ETERMINIST HEAT SHIELD FOR BALLIST NASA-TH-X-394	THYL CELLULOS	58
AEROSPACE MATERIALS - REFRACTORY FOAMS, WHISKERS, COMPOSITES, AND TDR-930/2411/TN-1	METALS, COAT PLASTICS N63-12904	1
TRANSPARENT SKIN AND BLISTER PACE	KAGING - LAMI N63-13118	0
OPTIFORM, OPTICAL MACHINING OF PO IN PLASTICS - FLUID AMPLIFIER	URE FLUID SYS	
THERMAL DEGRADATION KINETICS OF (FIBERGLASS REINFORCED PHENOLFORM) R61S0145	CHARRING PLAS ALDEHYDE RESI N63-13464	IN
RADIATION, RECESSION AND TEMPERAT	TURE OF PLAST	1
ATTEMPT TRANSPORT OF STATE	N63-14341	1
TENSION, COMPRESSION AND SHEAR EN INTERLAMINAR PLANE OF FIVE PLAST FPL-1890	VALUATION IN IC LAMINATES N63-14496	1
PLASTICS AND RADIOELEMENTS RESEASEPARATION AND PURIFICATION - REMIN-1144	ACH - ISOTOPE ACTOR FUELS N63-14625	
 ABEZE LIS PLEISTES TORINA MI ATVAM AMEL 	NATION BUILDING	

MLM-1135	M03-10421	01-61
REVIEW OF POLYMER AND PLASTIC MICROL-SP-5-1	ATERIALS N63-10436	01-19
PERFORMANCE OF PLASTIC LAMINATES	S UNDER CRYDO	ENIC
ASD-TDR-62-794	N63-10516	01-19
INITIAL WEIGHT LOSS OF PLASTICS MASA-TH-D-1329	IN A VACUUM N63-10625	02-19
FLUOROCARBON PLASTICS UNDER INFI ENVIRONMENTAL CONDITIONS	N63-10924	SUAL 02-19
PLASTICS RESEARCH, ISOTOPES, RAI RADIDACTIVE ELEMENTS AND REACTOR	IGER X-RAY SE	NSOR,
MLM-1136	N63-11348	03-01
PLASTICS RESEARCH, ADMESIVES, RE	ACTOR FUELS,	avigan
MLH-1137	N63-11349	03-01
PLASTICS RESEARCH, RADIOACTIVE E SEPARATION & PURIFICATION, REACT SENSORS	CLEMENTS, ISO FOR FUELS, X-	TOPE RAY
MLM-1138 W. TRANS DANGERATIONS	N63-11350	03-01
LASER AS A LIGHT SOURCE FOR PHOT SCATTERING FROM POLYMER FILMS	OGRAPHIC LIG	HT
SCATTERING FROM POLYMER FILMS ONR-TR-46	N63-11555	04-23
PYROLYSIS OF PLASTICS IN HIGH VA	CUUM ARC INA	GE
FURNACE AND A STATE OF STATE O	N63-11794	04-19
EFFECTS OF LOAD PULSE ON SHOCK A	South the	7340
CHARACTERISTICS OF VERMICULITE C	ONCRETE AND	
POLYURETHANE PLASTIC VITAL DASA-1299	N63-12182	05-33
AMES ATMOSPHERE ENTRY SIMULATOR	AND ITS USE	IN
DETERMINING CHARACTERISTICS OF E ABLATIVE HEAT SHIELD FOR BALLIST	THYL CELLULO	SE AS
NASA-TH-X-394	N63-12562	06-10
AEROSPACE MATERIALS - REFRACTORY FDAMS, WHISKERS, COMPOSITES, AND TDR-930/2411/TN-1	HETALS, COA	TINGS,
TDR-930/2411/TN-1	PLASTICS N63-12904	07-18
TRANSPARENT SKIN AND BLISTER PAG	KAGING - LAN	INATES
RIA-62-3600	N63-13118	07-17
OPTIFORM, OPTICAL MACHINING OF P IN PLASTICS - FLUID AMPLIFIER	URE FLUID SY	STEMS
PLASMA BAVES IN B MOROUNINGOUS	N63-13393	08-11
THERMAL DEGRADATION KINETICS OF FIBERGLASS REINFORCED PHENDLFORM	CHARRING PLA	STICS
FIBERGLASS REINFORCED PHENOLFORM	N63-13464	INS 08-13
RADIATION, RECESSION AND TEMPERA	TURE OF PLAS	TIC
AND COMPOSITE MATERIAL SURFACES	N63-14341	
TEMETON COMPRESSION AND SUSTAIN	TOWN - WOTTS	
TENSION, COMPRESSION AND SHEAR E INTERLAMINAR PLANE OF FIVE PLAST	IC LAMINATES	SHORT
FPL-1890	N63-14496	10-19
PLASTICS AND RADIOELEMENTS RESEA SEPARATION AND PURIFICATION - RE	ACTOR FUELS	BYAKO
HLH-1144	N63-14625	10-23
CHEMICAL REACTIONS BETWEEN PLAST MATERIALS AND PROPELLANT EXHAUST	GASES N63-14720	11-07
PREPARATION OF WOOD-PLASTIC COMP	FA-1115 LEGG 1	AL
PREPARATION OF MODD-PLASTIC COMP USING GAMMA RADIATION TO INDUCE EFFECTS OF GAMMA RADIATION ON HO	POLYMERIZATI 00	ON -

1-01

1-01 S 1-01 1-19

10 1-19 2-19 AL 2-19 OR, 3-01

-01 E -01

-19

-33 AS -10 65, -18 TES -17 HS. -11 cs -13

-19

-19

23

97

000-600	N63-14860 1	1-07	MLM-1146 ME 6553. FEE 301 BALLMELT M63-20345 20-07
PERMEABILITY OF PLASTIC SUBSTANC	MAR-15944 1		PLASTIC MATERIALS - SPECIFICATIONS FOR DEFENSE
PERMEABILITY CELL AND IONIZATION MEASURING PERMEATION OF PLASTIC	CHAMBER FOR	ngev hyerr	HAROWARE PLASTEC-6 THERMAL RADIATION FROM ABLATING PLASTIC MATERIALS INJECTED INTO HYPERSONIC SHOCK MAYES
D-792	N63-15374 1	2-15	NASA-TN-D-1978 N63-20608 20-13
PERMEABILITY OF SOME PLASTIC MAT HIGH VACUUM SYSTEM CONSTRUCTION AERE-M-599	ERTAL SUITABLE	FOR 12-19	POSITRON ANNIHILATION IN CONDENSED MATERIALS - PRECISE MEASUREMENTS OF LIFETIMES AND INTENSITIES AS A FUNCTION OF TEMPERATURE N63-21715 22-23
EFFECT OF RADIATION AND MITRIC A	CID-NITRATE SA	196	POLYCHLORVINYL & POLYETHYLENE PLASTIC FILMS FOR MEDICAL TREATMENT OF WOUNDS & BURNS JPRS-21204 N63-22658 23-16
100-14598 XRTAJY NA NUMA R			TONITTING DADIATION EFFECTS ON DIASTICS FOR
PERFORMANCE OF LAMINATED PLASTIC CRYOGENIC TEMPERATURES - EPOXY R TESTS	MAIERIALS AT	12-19	COMMUNICATION SATELLITES - HIGH ENERGY ELECTRONS N63-Z2692 23-09
CHEMICAL REACTIONS BETWEEN ABLAT	T GASES	14-19	TRANSPARENT COMPOSITE PLASTIC FILMS FOR MILITARY PACKAGING RIA-63-2462 23-19
MEHAVIOR OF PLASTIC AND COMPOSIT	V MOTHER TO A STATE	100 M	STRENGTH OF GRAPHITE & PLASTIC TUBING UNDER
BEHAVIOR OF PLASTIC AND COMPOSIT		4-19	RR-TR-63-18 N63-22934 23-19
TESTS TO DETERMINE MECHANICAL PR	ORENTIES OF	ALCEN ALCEN	PLASTIC & METAL MOLDS FOR SOLID PROPELLANT
PLASTICS AID-62-77			RESEARCH PA-TH-1250 N63-22977 23-19
FLOW AND FRACTURE IN METAL AND P	THE RESERVE AND ADDRESS.	200	MECHANICS OF CREEP & IMPACT FOR PLASTICS - STATIC
MATERIALS	N63-17177 1	E1337 -	6 DYNAMIC STUDIES ON LINEAR POLYMERIC MATERIAL 6. HIGH STRAIN RATE BEHAVIOR OF PLASTIC MATERIALS AROD-3263-7 N63-23056 24-19
RADIATION-INDUCED POLYMERIZATION HOISTUREPROOF PLASTIC COATINGS - HALOGENATION	POLYETHYLENE	20mg.	INFRARED SPECTRA OF PLASTICS & ELASTOMERS AFTER
MI-303	- N. S.	15-07	STRUCTURE & GROWTH & DECAY OF DOUBLE CARBON BONGS N63-23057 24-19
CARBONIZATION OF PLASTICS, VAPOR SPECTRAL EMITTANCE OF REFRACTORY WADD-TR-60-646, PT. II	MATERIALS		PLASTIC MEMORY RADIATION INDUCED PLASTIC MEMORY IN POLYETHYLENE
MECHANISM OF RADIATION-INDUCED G	ELATION IN	2100	AND USE IN SPACE ERECTABLE STRUCTURES NASA-CR-50447 N63-18164 16-19
MI-320	二月初後 法十三人がなりのもを強	MANUAL TO THE PARTY OF THE PART	PLASTICITY AND ATTE PARTICITY AND ATTE PARTICIPATE AND ATTER A CONTRACT AND
RIGID PLASTIC SHELL THEORY WITH FLOW THEORY EQUATIONS	TAG SAME OFFICE	official in	CF DEFORMATION
DOMITT-1-23	N63-18253 1	7-32	CF DUCTILITY
SPACE ENVIRONMENTS - VACUUM, THE ULTRAVIOLET AND PARTICLE RADIATI PLASTIC MATERIALS - THERMOPLASTI	ON - EFFECTS O	IN SA	CF ELASTICITY CF FLEXIBILITY CF HECHANICAL PROPERTY APPLICATION OF LINEAR HARDENING PLASTICITY THEORY
41-11 AUGEL-EAN		17-19	TO CYCLE AND PATH DEPENDENT STRAIN ACCUMULATION TEAM-212 N63-10720 02-33
NONHETALLICS FOR SUPERSONIC TRAN PLASTIC AND GLASS SEALS AND SEAL CONTAINMENT, MECHANICAL PUMPS AN	SPORT AIRCRAFT ANT FOR FUEL ID TIRES	27.19 T4.19	ELASTIC AND PLASTIC BUCKLING OF ORTHOTROPIC CYLINDERS 02-33
DITTOR OF DESIGNATION AND OTHER		18-19	MECHANICAL PROPERTIES OF VISCOPLASTIC SOLIDS
THERMOPHYSICAL PROPERTIES OF PLA MATERIALS AT CRYDGENIC TEMPERATU 894-63-001-4		D412	SOLIOS IER SER. 175, ISSUE 1
THE PROPERTY OF A TANK AND A PARKET WAS A PARKET	2 - 2013/19-519	FARAVIT.	FINITE TWISTING AND EXPANSION OF HOLE IN RIGID/
EFFECTS OF SPACE VACUUM ENVIRONMELECTRONS, ELECTROMAGNETIC RADIA	TION AND IONS	ON	N63-14464 10-33
METALS, PLASTICS, CERAMICS, OILS	N63-19109 1	18-29	ELASTO-PLASTIC ANALYSIS OF STRUCTURES UNDER LDAD . AND TWO-DIMENSIONAL TEMPERATURE DISTRIBUTIONS -
RADIATION TOLERANCE OF MATERIALS IN SPACE APPLICATIONS - CERAMICS ADMESIVES, SEMICONDUCTORS AND RE	PLASTICS,	ASSA D	TIME DEPENDENT ANALYSIS ASD-TR-61-667, VOL. III
LRSC-8-19-62-8 301,36 MOST TO 114	TIMEBULL DA SOA	0-23	BRACING REQUIREMENT OF PLASTICALLY DESIGNED MIDE- PLANGED STEEL BEAMS
POLYTETRAPLUORDETHYLENE PLASTICS DS-106 ADD THE BOY STILLEDAYAD ST		20-19	TOUGHNESS AND PLASTIC PROPERTIES OF ALUMINUM-
POLYTRIFLUOROCHLOROETHYLENE PLAS DIELECTRIC, DISSIPATION, LOSS, P RESISTIVITY DATA			MAGNESIUM ALLOYS IN WELDED CONDITION
RESISTIVITY DATA	N63-20285 2	10-19	MATHEMATICAL THEORY OF ELASTICITY AND PLASTICITY OF BRITTLE MATERIALS AT VARIOUS TEMPERATURES
PLASTICS, ADMESIVES, ISOTOPES, R AND FUELS, AND PLUTONIUM REAGENT	CACTOD MATERIA	TZU43	ASD-TDR-63-490 Land Control to MAS-20771 21-33

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ANISOTROPY, ELASTICITY AND PLAST	N63-21006	
INFLUENCE OF WELDING VARIABLES (AND PLASTICITY OF WELDED ALUMINU PLATE	JM-MAGNESIUM	ALLOY
THEORETICAL PLASTICITY AND DETER DISTRIBUTION DUE TO TRANSVERSE (UNDER TENSION	RACK IN SHEE	T
RAE-R-STRUCT-278	N63-22211	23-33
IDENTIFICATION AND DETERMINATION LACQUER BY PROGRAMMED TEMPERATUR CHROMATOGRAPHY - COATINGS	OF PLASTICI RE GAS N63-16495	ZER IN
VISCOELASTIC PROPERTIES OF PLAST CHLORIDE - STRESS RELAXATION CUP CONCENTRATION AND POLYMER STRUCT	VES, PLASTIC	INYL IZER
ONR-TR-RLT-62	N63-19323	18-19
PLASTISOL VINYL PLASTISOLS FOR USE IN NEUT SYSTEMS	RON SHIELDIN	G
SYSTEMS LAMS-2800 PLATE	N63-13372	
SA FLAT PLATE	a promis o	MANEYE HANEYE
TURBULENT FLOW FTD-TT-62-1413/162		
TEMPERATURE FIELD OF A PLATE OF WITH CONTINUOUSLY ACTING HEAT SO FTD-TT-62-1391/162	FINITE DIMEN	SIONS
APPLICATION OF VARIATIONAL MOTIC NONLINEAR VIBRATION ANALYSIS OF LAYERED PLATES AND SHELLS AFOSR-TN-2256	N EQUATIONS HOMOGENEOUS	TO THE
NONLINEAR FLEXURAL VIBRATIONS OF AFOSR-1310		
RESONANCE ABSORBERS WITH ABSORBE	NG STRUCTURE	S IN
OR BEHIND A METAL PLATE RADC-TDR-62-530	N63-10572	01-23
FLOW ABOUT THE LEADING EDGE OF A AT HYPERSONIC SPEEDS ARL-62-405	SWEPT BLUNT N63-10753	12822 35
ACOUSTIC RADIATION FROM A BEAM A	TTACHED TO A	THIN
PLATE AT BETO F-ESHIOR OF TARTITO	N63-10962	
STRUCTURAL SYNTHESIS OF SYMMETRI NASA-TH-D-1691	N63-11050	03-34
ANALYTICAL PLOTTER FOR MAKING CO COORDINATES	RRECTIONS ON N63-11592	PLATE 04-12
AERODYNAMIC CHARACTERISTICS OF F SHAPED PLATES AND OSCILLATING RE SUPERSONIC FLOW NALL-TA-S.527	CTANGULAR WI	NGS IN
COPRECIPITATION, COEVAPORATION,	COMMINUTION	
a real content of the same of the content of the same of the said	N63-11939	04-Z3
BOUNDARY LAYER FLOW WITH SUSPEND UPSTREAM OF LEADING EDGE OF PLAT AERONAUTICAL ENG. REPT620	PED PARTICLES E N63-11957	05-11
STRAIN MEASUREMENTS ON ALUMINUM- ALLOY PLATES LOADED IN TENSION RAE-TRANS-996		
THEORETICAL SOLUTION OF ORTHOTOC SUBJECTED TO BENDING TTRI-48		
COMPARISON OF BENDING OF ORTHOGO PLATE WITH BENDING THEORY OF ORT	MALLY STIFFE	NED TE

	STATE AND STATE OF THE STATE OF
TTRI-53	N63-12404 06-33
SALT BATH HEAT TRANSFER RATES FO ANNEALING PROCESS TEMPERATURE DI Y-1410	OR URANIUM PLATE - ISTRIBUTIONS N63-12496 06-13
INTERLEAVED-PLATE ELECTRODYNAMIC	TRANSDUCER N63-13012 07-15
PLATES	OF ORTHOTROPIC N63-13174 07-33
INDUCTANCE AND CAPACITANCE DETER CIRCULAR CUI QUARTZ PLATES FOR U IN FILTER CIRCUITS AND OSCILLATO	JSE AS RESONATORS
THERMAL BUCKLING OF ANNULAR PLAT SUDAER-143	TES N63-13474 08-13
DAMPING OF ALUMINUM HONEYCOMB SA ASD-TOR-62-1096	
STRESS AMALYSIS OF SANDWICH PLAT ATTACHMENTS, DESIGN APPLICATION, MECHANICAL PROPERTIES, TESTING - SM-42883	, FABRICATION,
CORRELATION OF CREEP BUCKLING EXALUMINUM ALLOY PLATES	KPERIMENTS ON N63-13841 09-33
APPLICATIONS OF THEORY OF DYNAMI ELASTIC SYSTEMS - RODS, ARCHES, SHELLS	BEAMS, PLATES, AND
SSD-TDR-62-154, VOL. III	N63-13956 09-23
BUCKLING OF TAPERED PLATES USED STRUCTURES ARC-REM-3309	
FLOW FIELD REVIEW AND HYPERSONIC LEADING EDGES	MAR SARON SA SS
THERMAL STRESSES IN RECTANGULAR SPANNISE TEMPERATURE GRADIENT ARL-63-4	PLATES CAUSED BY
HYPERVELOCITY IMPACT - SPALLATING VELOCITY PROJECTILES PENETRATING TARGETS	ON PRODUCT BY HIGH
BOUNDARY LAYER NOISE - THIN STEE	EL PLATES IN
BENDING OF ELASTIC PLATE WITH 16 NUMERICAL SOLUTION BY FINITE DIS WAPD-230	2 THE RESERVE OF THE
PLASTIC STABILITY OF GEOMETRICAL PLATES AND CYLINDRICAL SHELLS	LLY ORTHOTROPIC
P1-0(45951-66W	MP3-131A3 13-33
ELASTIC-PLASTIC RESPONSE TO HEA INFINITE PLATE OF FINITE THICKN STRESS-STRAIN RELATIONS	THE PROPERTY OF THE PARTY OF TH
DYNAMIC FIELDS - STRESS AND VELO OF CONSTANTLY MOVING ENERGY SOU PLATES - ELASTODYNAMICS OF MOVI MRC-311	OCITY DISTRIBUTIONS RCE IN ELASTIC NG LOADS N63-16384 14-24
TEMPERATURE RESPONSE AND HEAT B. SANDWICH PLATES SUBJECTED TO TR. ASD-TDR-63-306	ALANCE IN HONEYCOMS ANSIENT HEATING N63-16996 15-23
	TOUS THRACT DN

STRESS WAVE PROPAGATION FROM OBLIQUE IMPACT ON SURFACE OF INFINITE PLATE ... N63-17069. 15-20 STRUCTURAL SYNTHESIS CAPABILITY FOR INTEGRALLY STIFFENED WAFFLE PLATES N63-17182 15-34 ELASTIC STABILITY IN NOMLINEAR BUCKLING OF CIRCULAR PLATES DUE TO RAPID HEATING OR COOLING NASA-CR-50243 N63-17202 15-20

THIN PLATE PERFORATION INVESTIGATED BY HYPERVELOCITY IMPACT N63-17303 15-33

-33 퀭

-15 -33 S -01 -13 -33

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-33

AND -23

-33

AT -11 Y

-33 GH -33

-33

APE -33

-33

NAL -23 DMS

-24 246

-20 -34

-20

-33

FRACTURE MECHANICS APPLICATION TO ORTHOTROPIC PLATES TEAM-248 N63-17472 15-33	DEFLECTIONS AND STRESSES IN ORTHOGONALLY STIFFEMED PLAYES SUBJECTED TO PURE TWIST RR-44 N63-22797 23-33
PARAMETRIC STUDY OF HYPERVELOCITY PERFORATION OF THIN PLATES - VISCOPLASTIC FLOW MODEL DIT-125-3 N63-17726 16-20	DHIC-185 NG3-25111 24-18
CAVITATION FLOW PAST CURVED SURFACES - CIRCULAR PLATE, WEDGES - HYDROFOILS NO3-18200 16-11	DETERMINATION OF ELASTIC COMPLIANCE OF CYLINDRICALLY AEOLOTROPIC PLATES UNDER TRANSVERSE LOAD NO3-23577 24-23
MATHEMATICAL ANALYSIS OF MYPERVELOCITY IMPACT OF PELLETS WITH THIM PLATES MASA-CR-50706 N63-18648 17-05 .	FREQUENCIES OF FLEXURAL VIBRATION AND CORRESPONDING MODAL SHADES FOR CYLINDRICALLY AFOLOTROPIC CIRCULAR PLATES N63-23614 24-23
USE AND CALIBRATION OF INSTRUMENT FOR MEASURING TORSIONAL RIGIDITY OF STIFFENED PLATES MASA-TN-D-2007. M63-18669 17-15	EFFECTS OF END PLATES ON THREE-DIMENSIONAL SEPARATED FLOW AT ENDS OF CYLINDRICAL MODELS ARC-CP-683 N63-23746 24-11
RESONANT FREQUENCIES AND MODE SHAPES OF DOUBLE CONICAL SANDWICH DISCS WITH RADIAL SYMMETRY - VIBRATION TESTING NASA-TN-D-1940 N63-19277 18-34	PLATFORM SA INERTIAL PLATFORM SA STABILIZED PLATFORM AIRBORNE RADIOACTIVITY FROM NUCLEAR TEST — IRANSDUCER MEASUREMENT PLATFORM — NRL REPORT
CONSTRUCTION AND DESIGN OF EQUIPMENT FOR EXPLOSIVE HOLE PUNCHING OF METALLIC PLATES - DYNAMIC DEFORMATION No.3-19617 19-17	N63-13607 08-01 TRANSDUCER MEASUREMENT PLATFORM FOR SOMAK FACILITY
RADIATION FROM CHARGED PARTICLE IN STRAIGHT MOTION THROUGH PERIODIC SET OF DIELECTRIC PLATES AFCRL-63-168 N63-19711 19-23	PLATING SA ELECTRODELESS PLATING
ELASTIC STATE DETERMINATION OF THERMAL STRESS IN THIN, FLAT PLATE OF FINITE DIMENSIONS MASA-TN-D-1740 N63-19733 19-33	SA ELECTROPLATING CF COATING CATALYTIC GAS PLATING WITH NICKEL CARBONYL K-1533 N63-10585 02-07
RESONANCE DAMPING FOR THIN, VIBRATING PLATES - CORRELATION OF DYNAMIC VISCOELASTICITY & THIN PLATE THEORIES IN MATERIALS MECHANICS ASD-TDR-63-411 N63-20305 20-33	PLATINUM QUENCH HARDENING IN PLATINUM AND GOLD ASD-TDR-62-329 N63-10756 02-18
BENDING AND VIBRATION OF ISOTROPIC RECTANGULAR PLATE MITH HINGED SLOT N63-20467 20-33	INTRACRANIAL CIRCULATION - PLATINUM ELECTRODE BIOSENSORS NASA-TT-F-159 N63-14316 10-16
MAGNETORESISTIVE BEHAVIOR OF POLYCRYSTALLINE INDIUM PLATES IN MAGNETIC FIELDS N63-20713 21-25	MYDROGEN AND DXYGEN EVOLUTION - INFLUENCE OF ADSORBED SUBSTANCES ON PLATINUM AND NICKEL ELECTRODES ASD-TDR-62-1067 N63-15808 13-07
FLUTTER OF SIMPLY SUPPORTED ORTHOTROPIC PANELS AT SUPERSONIC SPEEDS NASA-TN-D-1949 N63-21065 21-33	ASD-TOR-62-1067 N63-15808 13-07 INTERNAL FRICTION AND DYNAMIC MODULUS OF GOLD, COPPER, SILVER AND PLATINUM N63-16705 14-18
DIFFRACTION OF PLANE HYDROACOUSTIC MAVE AT 80UNDARY OF TWO ELASTIC PLATES PRS-20981 N63-21187 21-23	INTERNAL FRICTION PEAKS IN SILVER AND PLATINUM AT LOW TEMPERATURE - CRYSTAL STRUCTURE NASA-CR-50211 N63-17336 L5-23
INFLUENCE OF WELDING VARIABLES ON TENSILE STRENGTH AND PLASTICITY OF WELDED ALUMINUM-MAGNESIUM ALLOY PLATE N63-21189 21-18	CATALYTIC DECOMPOSITION OF FORMALDEHYDE AND HYDROGEN PERDXIDE - CATALYTIC HYDROGENATION OF QUINONE ON PLATINIZED PLATINUM ELECTRODES
EFFECT OF ELASTIC PLATE ON ACOUSTIC FIELD OF POINT SOURCE CU-2-63 ONR-266/86/-CE N63-21286 21-23	AFCRE-63-632 M69-19410 19-18 KINETICS OF DXIDATION OF PLATINUM M63-21276 21-18
DIFFUSION OF HYDROGEN AND OTHER LIGHT GASES THROUGH MEMBRANES, POROUS NEDIA, AND THIN PLATES — BIBLIOGRAPHY LMSC-6-90-63-31 N63-21318 21-11	ABUNDANCE OF PLATINUM AND IRIDIUM IN METEORITES - SPECTROGRAPHIC DETERMINATION IN IRON METEORITES & METAL PHASE OF CHONDRITES N63-21434 22-12
THREE-FUNCTIONS-SET SOLUTION FOR STRESS CONCENTRATION IN PLATES OF ARBITRARY THICKNESS ASD-TOR-43-515	REFLECTION OF MODULATED HELIUM AND DEUTERIUM MOLECULAR BEAMS FROM PLATINUM SURFACE N63-21576 22-11
ORTHOTROPIC PLATE THEORY UNDER STATIC LOAD CONDITIONS - SOLUTION OF GOVERNING EQUATIONS BY PERTURBATION METHOD M63-21853 22-20	FUEL CELLS USING FLOQUED FLOW ELECTRODES OF SILVER OR PLATINUM SCREEN 163-23458 24-09 PLATINUM COMPOUND
CREEP OF ANNULAR PLATES UNDER RADIALLY SYMMETRIC	OFFERMINATION OF OXYGEN IN OXIDES OF PLATINUM AND OTHER REDUCTIOLE OXIDES N63-15865 13-07
LOADS PIBAL-669 ACOUSTIC RADIATION OF CYLINDRICAL BAR AND INFINITE ELASTIC PLATE EXCITED BY SHIP PROPELLER FIELD DAVIDSON LAB. REPT888 N63-22229 23-23	PLENUM CHAMBER EFFECT OF INTAKE AREA, PLANFORM LOADING & HOVER HEIGHT ON DISCHARGE COEFFICIENT OF TMO-DIMENSIONAL PLENUM-CHAMBER GROUND EFFECT NACHINE DTMB-AERO-1052 N63-18327 17-04
TRANSIENT TEMPERATURE HISTORY WITH UNIFORM ENERGY GENERATION FOR PLATE, CYLINDER & SPHERE N63-22317 23-13	PLOTTER CF NAVIGATION ANALYTICAL PLOTTER FOR MAKING CORRECTIONS ON PLATE COORDINATES N63-11592 04-12

PLI 80

PO

39 1

91

POS

econtine.		SUBJECT TRUEA
PROJECTION IATRON APPLICATION TO HIGH SPEED MULTICHANNEL PLOTTER NAVTRADEVCEN-1188-1 N63-16737	14-09	THERMODYNAMIC FUNCTIONS FOR PURE PLUTONIUM LA-2013 N63-12603 06-13
SUBROUTINE FOR GRAPHING BY COMPUTER - LINEAR		CARBON SOLUBILITY IN LIQUID PLUTONIUM LAMS-2832 NG3-13156 07-07
LOGARITHMIC - CALCOMP PLOTTER ORNL-3447 N63-17538		LOS ALAMOS MOLTEN PLUTONIUM REACTOR EXPERIMENT
PLOTTING CF HAVIGATION CASPER PROGRAM FOR PLOTTING AND SCALING DATA	M13.k3	ALLOYS, SODIUM COOLING SYSTEM LAMS-2875 N63-14569 10-10
ORNL-3394 N63-12345	05-20	SAFETY ANALYSIS - EXPERIMENTAL BREEDER REACTOR-1 WITH MARK IV PLUTONIUM FUEL CORE - RADIATION HAZARD AND TOXICITY
CELESTIAL SPHERE N63-13353 PLOWSHARE PROGRAM	08-29	ANL-6411 . N63-15937 13-10
PLOMSHARE PROGRAM, SEDAN PROJECT - MASS DISTRIBUTION AND THROWOUT IN NUCLEAR EXPLOSION PNE-217F N63-20065	ON SEA	CERAMICS, FUEL SYSTEMS, AND PLUTONIUM METALLURGY HM-76300 THEORETICAL AND EXPERIMENTAL REACTOR PHYSICS AND
	MENT AS	EXPERIMENTAL CRITICAL MASS PHYSICS - NUCLEAR REACTOR PLUTONIUM-ALUMINUM FUEL ELEMENTS HM-76128 N63-16419 14-23
BLAST WAVES PNE-202F N63-20917	21-23	HIGH TEMPERATURE DESTRUCTIVE TESTING OF PLUTONIUM FUEL CAPSULES FOR THERMOELECTRIC CONVERTER -
BASE SURGE CLOUD RADIUS AND HEIGHT AS FUNCTION TIME FOR PRE-BUGGY SERIES OF HIGH EXPLOSIVE SHOTS - PLOWSHARE PROGRAM	ON OF	SYSTEMS FOR NUCLEAR AUXILIARY POWER PROGRAM AFSWC-TDR-62-12 N63-17019 15-07
PNE-304 N63-23569	24-21	NEUTRON DIFFRACTION PATTERN OF ALPHA PLUTONIUM AT 23-DEG K LA-2912 N63-19210 18-23
PLUG MECHANICAL PLUG GAUGE FOR AIR BLAST IMPULSES EXPLOSIVES DETONATED AT DIFFERENT PRESSURES BRL-1182 N63-13048		LA-2912 N63-19218 18-23 SOLID PLUTONIUM FUEL FOR NUCLEAR REACTORS LAMS-2949 N63-20037 21-26
EXTERNAL STREAM EFFECTS ON ISENTROPIC PLUG-TY NOZZLE PERFORMANCE AT MACH 2.0, 1.8, AND 1.5 NASA-MEMO-2-17-59E N63-14680		CRYSTALLOGRAPHIC DATA FOR ALPHA PLUTONIUM INCLUDING X-RAY DIFFRACTION PATTERNS ANL-6676 N63-21042 21-18
INVESTIGATION OF AIR-COOLED, PLUG-TYPE, VARIA AREA EXHAUST NOZZLE AT HIGH TEMPERATURE NACA-RM-E57A07 N63-14762	ABLE- 11-02	SPECTROPHOTOMETRIC DETERMINATION OF MICRO- QUANTITIES OF CHLORIDE IN PLUTONIUM METAL AFTER PYROHYDROLYSIS
PLUG NOZZLE PROPULSION EFFICIENCY NASA-TN-D-1804 N63-16297	13-02	TEMPERATURE EFFECT ON SOLUBILITY OF TANTALUM IN
PLUN BROOK REACTOR		LIQUID PLUTONIUM LAMS-2952 N63-22378 23-18
NASA-TN-D-1560 N63-13182 AIR LEAKAGE MEASUREMENT OF PLUM BROOK REACTOR	07-10	NUCLEAR RADIATION EFFECT ON METALLIC FUELS - URANIUM, THORIUM, PLUTONIUM & THEIR ALLOYS REIC-29 N63-22935 23-18
VESSEL NASA-TN-D-1731 N63-18209	16-23	PLUTGHIUM COMPOUND PLASTICS, ADMESIVES, ISOTOPES, REACTOR MATERIALS
PLUM BROOK REACTOR — MEASUREMENT OF MYDRAULIC CHARACTERISTICS NASA-TM-D-1725 N63-19177	18-10	AND FUELS, AND PLUTONIUM REAGENTS MLM-1146 N63-20345 20-07
PLUME AERODYNAMIC STRUCTURE OF ROCKET EXHAUST PLUME VARIOUS ALTITUDES WITHOUT REACTION - DEFENDER	E AT	PLUTONIUM RECYCLE TEST REACTOR /PRTR/ MONITORING OF ZIRCALOY-2 PRESSURE TUBES OF THE PRTR REACTOR FOR HIGH TEMPERATURE AND RADIATION EFFECTS
PROJECT N63-23788	24-02	HW-74731, PT. II N63-11805 04-23
PLUTO PROJECT PLUTO REACTOR TEST FACILITY DESCRIPTION UCRL-7036, PT. 8 N63-10074		POSTIRRADIATION EVALUATION OF ZIRCALOY-2 PLUTDHIUM RECYCLE TEST REACTOR PRESSURE TUBES - PART I HW-73698, REV. N63-11974 05-17
The Miles of Moderne Verter and African Street	SSAssi'	REACTOR RED - FUELS. MATERIALS SCIENCE, FUEL CELL,
BERYLLIUM OXIDE CERAMICS AND THEIR APPLICATION HUCLEAR PROPULSION SYSTEM - PLUTO PROJECT UCRL-6743 N63-11996	05-19	NONDESTRUCTIVE TESTING, PLUTONIUM RECYCLE TEST REACTOR HM-75914 N63-13015 07-01
PLUTO REACTOR TEST FACILITY DEVELOPMENT - COS HISTORY, AND SYSTEM DESIGNS N63-22309 PLUTONIUM	23-27	REACTOR METALLURGY RESEARCH - IRRADIATION DAMAGE. MATERIALS DEVELOPMENT FOR PLUTONIUM RECYCLE TEST REACTOR & HANFORD PRODUCTION REACTOR /N/ HW-76228 N63-13954 09-23
MOLTEN PLUTONIUM PUMP EXPERIMENT IN REACTOR O	ORES 04-23	PLUTONIUM RECYCLE TEST REACTOR PUMP OPERATING EXPERIENCE - MECHANICAL SEAL LIFE
COINCIDENCE COUNT ALPHA PARTICLE AIR MONITOR HW-75384 N63-11976	05-15	HM-76646 N63-15675 12-17 REACTOR DEVELOPMENT PROGRAM - BOILING WATER REACTOR, LIQUID-METAL-CODIED REACTOR AND PLUTONIUM
CATION EXCHANGE METHOD FOR SEPARATION AND	ENGLE OF	RECYCLE REACTOR - REACTOR SAFETY AND TECHNOLOGY ANL-6749 N63-19220 18-10
REACTOR FUEL ELEMENTS NBL-189 N63-12401	70-40	MINES OF THESE SPECIAL TIME THE STREET BY NO - 17-30 STREET BY SECOND STREET STREET BY STREET STREET BY ST
	4-744	

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PLUTONIUM-239 FISSION NEUTRON ENERGY SPECTRA FROM URANJUM 235.	S YIELD POINTAL OF OF OUR HOLDER OF THE TOTAL TO THE TOTAL TO THE THE TOTAL
URANTUH 233 AND PLUTONIUH 239 LAMS-2883 N63-17197 15-15	POINT DEFECT EFFECT OF ELASTIC INTERACTION ON RATE OF CLUSTER GROWTH IN METAL CRYSTALS - POINT DEFECTS
PHEUMATICS PHEUMATIC PYROMETRIC TECHNIQUE - MEASURING APPARATUS M63-20182 20-15	ARGD-2064-4 (1912) AND ENDERHOR N63-13052 07-18
SPECTRUM AND POLARIMETRY STUDIES OF SATCHAITES	POINT IMPEDANCE VIBRATIONS - FORMULAS FOR MODAL DEMSITY, RESONANT
ANALOGIES FOR PNEUMATIC LINEAR CIRCUITS N63-13400 08-11	FREQUENCIES & POINT INPEDANCE OF CYLINDRICAL SHELLS SCHERAL COM- 01 455522 FOLKMANCH 43 8459 TO PROTECTION DATE
HIGH SPEED PNEUMATIC DIGITAL COMPUTER USED IN ALL . PNEUMATIC GUIDANCE SYSTEM N63-13406 08-20	SHELL MODE COUPLING — DETERMINATION OF MODE SHAPE, TRANSFER AND POINT IMPEDANCE, AND MATURAL FREQUENCY OF CYLINDERS AND COMES
PURE FLUID CONTROL DEVICES AND DESIGN OF PRINTED PHEUMATIC CIRCUITS	U411-63-005 N63-18271 17-23
JPRS-21005 - SEATE TESTS SON 283 N63-22100 1 22-11	POINT-TO-POINT COMMUNICATION ELECTRICAL CHARACTERISTICS OF POINT-TO-POINT LOG PERIODIC ANTENNA SYSTEM N63-15783 13-08
THREE-STAGE DIGITAL AMPLIFIER - FLUID AMPLIFIER, DIGITAL PNEUMATIC ELEMENTS, CASCADE N63-13366 08-11	POISEUILLE FLOW PLANE POISEUILLE FLOW OF RAREFIED GASES IN TWO-
FLUID POWER CONTROL - HIGH-PERFORMANCE HYDRAULIC AND PNEUMATIC CONTROL EQUIPMENT FOR ADVANCED	AERONAUTICAL ENG. REPT619 H63-12008 H05-11
SYSTEMS DSR-8998-1 AT 210 MYARTZ MT - 9001MH N63-14338 0T 10-11	MAGNETOHYDRODYNAMICS - POISEUILLE PROBLEM AND SHOCK WAVE PROPAGATION N63-20197 20-24
FLUID AMPLIFICATION - PNEUMATIC CONTROL OF GATE, FLIP-FLOP, OSCILLATOR, CLOCK, AND HALF ADDER TR-1114 N63-14779 11-11	RAREFIED GAS DYNAMICS - PLANE POISEUILLE FLOW BETWEEN TWO PARALLEL PLATES WITH A MINIMUM AS FUNCTION OF KNUDSEN NUMBER N63-21592 22-11
PREUMATIC EQUIPMENT ELECTRO-PNEUMATIC CONSTANT VOLUME MANGNETER K-1577 N63-19774 19-15	POISON BURNUP AND POISONING IN NUCLEAR REACTOR CORE AND VALIDITY OF UNIFORM APPROXIMATION NACA-AM-ESDOZO W5-13281 07-10
MICROSCOPIC SYSTEM USING PNEUMATIC EQUIPMENT FOR STUDYING MARTIAN AEROSOLIZED SURFACE PARTICLES NASA-CR-51538 N63-23035 24-29	POISSON DISTRIBUTION REPAIR-COST PROCESSES WITH POISSON-DISTRIBUTED FAILURE INTERVALS
POCKET MOUSE BIOLOGY AND PHYSIOLOGY OF POCKET MOUSE AS ORGANISH FOR BIOSATELLITE RESEARCH MASA-CR-51643 N63-23530 24-16	PRR-TH-61-19 N63-12811 06-01 NONSTATIONARY WHITE HOISE - POISSON DISTRIBUTED 104 IMPULSES OF VARYING STRENGTH
HETABOLISM OF LITTLE POCKET MOUSE /PEROGNATHOS	AAE-63-1 15-80 Toae: -EaA
LONGINEMBRIS/ FOR USE IN BIOSATELLITES	ESTIMATION OF PARAMETERS IN MIXTURES OF DISCRETE DISTRIBUTION USING SAMPLE MOMENTS AND ZERO FREQUENCIES - POISSON DISTRIBUTION
RESISTANCE ON POCKET HOUSE TO IONIZING RADIATION NITH APPLICATION TO SPACE BIOLOGY - RADIATION RESISTANCE ON COMPANY AND ASSET NOS-23532 24-16	POISSON EQUATION
METABOLIC RATES OF IRRADIATED POCKET HICE PEROGNATHUS LONGINEMBRIS - SPACE BIOLOGY N63-23533 24-16	A PRIORI BOUNDS ON THE DISCRETIZATION ERROR IN THE NUMERICAL SOLUTION OF THE DIRICHLET PROBLEM BN-296 N63-10411 01-20
BLOOD VALVES OF POCKET HICE - PEROGNATHUS	PRINCIPLES OF CLASSICAL DYNAMICS - MOTION EQUATION NVO-10250 - 09-23
MORPHOLOGIC COMPARISON - EFFECTS OF IGNIZING RADIATION N63-23534 24-16	BLAST WAVES IN ELECTROGASDYMAMICS - POISSON 0 AA 00 EQUATION 3200 AA 12 CHANGE SHEET N63-14390 3 10-24
KARYDTYPE ANALYSIS OF PERDGNATHUS - NUMERICAL AND MORPHOLOGICAL DIVERGENCE - GENETICS N63-23535 24-16	POISSON AND FREE MOLECULE FLUX EQUATIONS RELATE CURRENT IN PROBE TO CHARGED PARTICLE DENSITY IN PLASMA FLUM
PROPOSED EXPERIMENT - EFFECTS OF EXTRATERRESTRIAL RESIDENCE ON POCKET HIGE - METABOLIC RHYTHR N63-29537 24-16	SOLUTION OF POISSON EQUATION FOR BOUNDARY CONDITIONS BY APPROXIMATIONS - MATRIX ANALYSIS - IBM 7090 COMPUTER PROGRAM FOR ION BEAM
IN POCKET NICE	11-21 ST 52-101-634 ST STEELS BENTTY 111-82-101-82-11
POD ENGINEERING DESIGN OF ORBITING GEOPHYSICAL	POLAR OPTICAL AND METEOROLOGICAL DATA OF BERING SEA MEL-1150 N63-13010 07-21
OBSERVATORIES TO MEET EXPERIMENT ORIENTATION REQUIREMENTS M63-15168 11-32	MAGNETIC AND IONOSPHERIC DISTURBANCES IN THE POLAR REGIONS FROM SOLAR CORPUSCULAR STREAMS - THEORIES
S POLAR OBSTING GEOPHYSICAL DESERVATORY /POGO/	POLAR AURORA
S FLOATING POINT	GENERATION AND EFFECT OF ELECTROSTATIC FIELDS AND OURING AURORAL DISTURBANCE MAIN - 2001334 RAD-TH-62-88 N63-10169 01-12
S HELTING POINT S SPLASH POINT S STAGMATION POINT S TRANSITION POINT G TRANSITION POINT	GEOMAGNETIC STORM THEORY - SOVIET STUDY

11-1

ite

POL

×

3

7 N63-11559 04-07

STUDY OF DYNAMIC MORPHOLOGY OF USING ALL-SKY-PHOTOGRAPHY	POLAR AURORA N63-15293	12-12	POLARIMETRY POLARIMETRIC OBSERVATION OF POLICE ZODIACAL LIGHT	ARIZATION OF	223Bill
ENHANCEMENT OF EQUATORIAL ELECT MAGNETIC SUBSTORMS - AURORAL EL		ECT	DETECTION OF EXTRATERRESTRIAL LIMETHODS		IMETRIC
NEGATIVE CORRELATION BETWEEN PO AURORA AND MAGNETIC ACTIVITY NASA-TH-X-50782	N63-23036	24-29	TELESCOPE WITH CASSEGRAIN OPTIC: SPECTRUM AND POLARIMETRY STUDIE: HOOM, ASTEROIDS, AND PLANETS	S OF SATELLI	TES,
POLAR CAP ALI-LAN	2015 17712		AFCRL-63-864 1517 84 541 J 21 EARCH	N63-20776	21-0
TIME VARIATIONS OF POLAR CAP AS WITH SOLAR COSMIC RAY BOMBARDHE INVESTIGATIONS UAG-R127	NT - RIONETE	RIBHZ DIA FI	POLARIS AS MISSILE STRUCTURAL FAILURE OF FIRST STAI FILAMENT WOUND CONFIGURATION-F HYDROSTATIC PRESSURE	GE POLARIS A	3 7 H R 1/9-1
CC-SCOOLST PRODUNG	500-67	-1130	0-201 + 40 NOTEST SMA RADINER UD	N63-19062	16-0
SOLAR HIGH-ENERGY PARTICLE RADI GEOMAGNETIC FIELD BY POLAR CAP	ABSORPTION N63-19486	0.18304104	FORGING PARAMETERS FOR FIRST STA A3 TUNGSTEN NOZZLE INSERTS	AGE POLARIS N63-19332	MODEL 18-16
SOLAR RADIO BURSTS OF TYPE IV,	GEOMAGNETIC	STORMS,	FORGING, RING ROLLING, AND SHEAT		
AND POLAR CAP ABSORPTION EVENTS	N63-22855	23-05	NOZZLE INSERTS FOR ADVANCED POL	N63-19381	18-11
POLAR METEOROLOGY POLAR CAP AND AURORAL ZONE ABSO FIRST SIX NONTHS OF THE INTERNA	RPTION DURIN	G THE	FILAMENT-WOUND CHAMBERS FOR POLI	N63-22574	RS 23-21
YEAR RAD-TR-62-64	M63-11859	04-12	PHOTOSTRESS TECHNIQUE IN STRAIN STUDY OF POLARIS AS SECOND-STAGE		M-HSG
TIME VARIATIONS OF POLAR CAP AS	LED GAS DYNA	RINKER	ABLYX-86 CLOCK, AND MALY ADDER	N63-23152	24-20
WITH SOLAR COSMIC RAY BOMBARDHE INVESTIGATIONS UAG-R127		RHEEFAR	POLARIS MISSILE POLARIS PROGRESS REPORT, MAY 190 BOUNDARY LAYERS, ANISOTROPISM	#13	TICS -
THE THE THE THE TRANSPORT CORE WHO	UE AND POYSON	THINKS	C COMSTANT VOLUME WARRING VALUE VALU	N63-11644	04-20
SOUTHERN CIRCUMPOLAR VORTEX AND OF POLAR STRATOSPHERE - ATMOSPH	ERIC ENERGET N63-14917	1CS 11-21	POLARIS PROGRESS REPORT, NOV 194 THERMOCONDUCTION & FINITE DIFFER	RENCE METHOD	SIDIN
PHYSICAL AND MECHANICAL PROPERT FROZEN GROUND - POLAR METEOROLO		ICE.	APPROACH TO SIMULATION OF POLAR	- CM-28 23 B.S.	-V5 VW
10-40CE PARTIES	N63-17757	16-12	SHOCK USING ELECTRODYNAMIC SHAKE	ER 321/01	1 79300
POLAR MAVIGATION PRESSURE INDUCED SHIFTS OF INFR POLAR MOLECULES	ARED LINES D	UE TO	ANALYSIS OF POLYURETHANE FOAM HO MISSILE TO CUSHION EFFECTS OF ER	DUNTED ON PO	LARIS SHOCK
AFCRL-63-231	N63-13667	08-23	TILE POCKET MOUSE /PERMENTADS	DA KELHUMBHI	TOMP
POLAR DRBIT NEAR-EARTH CHARGED-PARTICLE BAC WITH POLAR ORBITING SATELLITES UCRL-6693	KGROUNDS MEA		POLARIS MISSILE DEVELOPMENT - HY TESTING OF FILAMENT WOUND CHAMBI B-195	ER N63-19285	18-11
MASA TO LAUNCH POLAR ORBIT IONO SATELLITE 5-66	SPHERE BEACD	POLISION A PIN	ACOUSTICAL ANALYSIS OF FILAMENT- COMBUSTION CHAMBERS	NOUND POLAR	
ATMOSPHERIC OZONE MEASUREMENTS ORBITING SATELLITE	FROM POLAR	11 NA	RESIN SYSTEM FOR FILAMENT WOUND POLARIS MISSILE PROGRAM		23-11
TDR-169/3260-50/TN-3 POLAR ORBITING GEOPHYSICAL OBSERVA	N63-20307		POLARIS MISSILE PROGRAM - FILAMS COMBUSTION CHAMBER PERFORMANCE (TTERNS
OBJECTIVES OF ORBITING GEOPHYSI SATELLITES - ECCENTRIC ORBITING MISSIONS	& POLAR ORB	ITING	IMPROVED UNIFORMITY AND STRENGT PREIMPREGNATED ROVING FOR FILAME CHANGERS - POLARIS MISSILE	UTILIZATIO	N IN
ATMOSPHERIC RADIATION - SATELLI AIRGLOW, AURORA AND CHEMILUMINE	TE MEASUREME SCENCE - POG N63-18476	NT OF O	HYDROSTATIC-TEST PARAMETERS ON S INTEGRITY OF FILAMENT-WOUND CHAP	STRUCTURAL SBERS - POLA	RIS
POLAR RADIO BLACKOUT MEASUREMENT OF ELECTRON DENSITY FREQUENCY PROFILE IN LOWER D-RE	AND COLLIST		POLARIS PROGRAM - IMPROVED EPOXY FILAMENT-WOUND STRUCTURES		
FFIT-E-2 1970-0 ATAG AART AART			PULARISCUPE	CHAPTATION O	
POLAR REGION HIGH FREQUENCY COMMUNICATIONS S REGION - RADIO PROPAGATION AND			PHOTOELASTIC STUDIES OF DYMANIC MODULUS MATERIALS - HIGH SPEED F PDLARISCOPIC TECHNIQUES - STRUCT	PHOTOGRAPHIC TURAL DYNAMI	AND
ABSORPTION RADC-TDR-63-112	N63-15669	12-08	PHOTOELASTICITY - PLANE & CIRCUL		OPES -
MATHEMATICAL ANALYSIS OF U AND REGIONS - WIND	ARDRA	POLAR	GONIOMETRIC COMPENSATION - INDEX BIREFRINGENT COATING UTIA-23	OF REFRACT	ION -
POLAR IONOSPHERIC BACKSCATTER &	RADIO AUROR	AL GAR	POLARIZABILITY		358 3
ECHDES MEASURED BY STEP-SOUNDING			THE INTERNAL FIELD AND BOND POLA HYDROCARBONS	N63-11559	DATE W

1-05 TRIC 1-29

8-04 8-04 8-16 5TEN

CK -17 URE -17

-19

es -30

-17

17

33

33

97

ALKALI POLARIZABILITIES BY ATOMIC BEAM ELECTROSTATIC DEFLECTION METHOD M63-14275 10-23	POLARIZATION INDUCTION OF DIELECTRIC MATERIALS BY SHOCK MAYES, UTILIZING POLYSTYNENE M63-13915 09-23
DIPOLE POLARIZABILITIES OF LITHIUM PERIOD USING PERTURBED AND UNPERTURBED MAYE FUNCTIONS OF OPEN SHELL TYPE	LOW FREQUENCY GROUP RECORDS OF POLARIZATION, STEPPED FREQUENCY AND IOMOSPHERIC REFLECTION 3 AFCRL-63-256 N63-14244 M 10-12
ELECTRIC POLARIZABILITY OF ATOMIC HYDROGEN IN SHOCK MEATED FLOW AND UNDER THERMODYNAMIC CONDITIONS RA-463-7 N63-20009 19-11	TRANSPORT PROPERTIES OF POLAR SERICOMOUCTORS WITH EMPHASIS ON LEAD TELLURIDE - USE IN THERMOELECTRIC POWER GENERATION MASA-TN-D-1695 N63-14276 10-15
POLARIZABILITY INDUCED IN ELECTRONIC DISTRIBUTIONS' BY VALENCE ELECTRONS & CRYSTALLINE FIELDS EFFECT ON HYPERFINE STRUCTURE ANRA-TR-63-05 N63-21796 22-09	MATHEMATICAL DESCRIPTIONS OF POLARIZATION AND RELATED PHENOMENA - PART II, QUANTUM MECHANICAL DESCRIPTION AFCR63-27 N63-14596 10-23
MARIZATION F FERROMAGNETISH MEASUREMENT AND PRODUCTION OF A SPACE RADIATION MEASUREMENT AND PRODUCTION OF A SPACE RADIATION MARIZATION MARIZATION	WAVELENGTH DEPENDENCE OF POLARIZATION ASTRONOMICAL PHOTOMETRY OF INTERPLANETARY MATTER N63-13083 11-05
DIAGRAM OF AIRCRAFT ANTENNAS AND THE PROBLEM OF POLARIZATION WGL PAPER-A1 TAYLOG AIRCAGAM ANGS-10037 01-08 EXCESS NOISE IN SEMICONDUCTORS	VACUUM POLARIZATION AND RESONANCE CONTRIBUTIONS OF VIRTUAL VECTOR MESONS IN HIGH ENERGY ELECTRON- POSITRON COLLISIONS LNF-63/6
NG3-10406 01-25 NUCLEAR PHYSICS - GAMMA RADIATION, NEUTRON POLARIZATION, LIGHT NUCLEI	CALCULATIONS OF COLLISION SECTION FOR PRODUCTION OF LINEARLY POLARIZED ELECTRON PAIRS IN CRYSTALS LNF-62/113
ANL-6603 N63-10407 01-23 VENUSIAN AND LUNAR RADAR DEPOLARIZATION EXPERIMENTS	POLARIZATION OF RECOIL PROTONS IN PION-PROTON ELASTIC SCATTERING UCRL-10629 N63-16501 14-25
JPL-TR-32-245 N63-10428 01-05 MEASUREMENTS OF LIFETIMES, EXCITATION FUNCTIONS, DENSITIES, CROSS SECTIONS, AND POLARIZATION RATIOS	ANALYSIS OF ELLIPTICALLY POLARIZED ELECTROMAGNETIC PIELDS USING DIGITAL COMPUTER E10-64 N63-17256 15-20
OF THE METASTABLE STATE OF THE MEON ATOM UCRL-10477 N63-10504 01-23 MAGNETIC FIELD OF THE CRAB NEBULA AND ITS CENTRAL	DETECTION OF SOLAR PARTICLE STREAMS BY MEASURING POLARIZATION OF HIGH FREQUENCY RADIO WAVES SEL-63-041 N63-17573 16-08
STAR NASA-TT-F-112 N63-10769 02-05 MULTISLAB CONCEPT APPLIED TO RADIO PROPAGATION IN TONOSPHERE AND ITS LIMIT TO CONTINUOUS IONOSPHERE,	RADIATION EFFECTS ON INSULATORS - POSITRON ANNIMILATION IN SOLIDS - IUNIZATION OF ANTHRACENE CRYSTALS BY X-RAYS MEASURED BY POLARIZATION METHOD No.3-17654 16-17
POLARIZATION AND REFLECTION EQUATIONS AFCRL-62-1079 SYNCHROTRON RADIATION AS THE SOURCE OF JUPITERS	HORIZONTAL POLARIZATION OF GEODESIC LENS ANTENNAS FOR WIDEBAND OPERATION N63-18185 16-23
POLARIZEO DECIMETER RADIATION N63-10961 02-05	ATMOSPHERIC RADIO MOISE, LIGHTNING DISCHARGE RADIATION, LIGHT POLARIZATION AND VERY LOW FREQUENCY RADIATION N63-18220 17-21
PHASE SHIFT OF THE HARMONIC OUTPUT OF TRIGLYCINE SULFATE AS A FUNCTION OF THE SIGN OF POLARIZATION NOLC-568 N63-11418 03-23	INTERFEROMETER FOR POLARIZATION MEASUREMENTS AT 9.4-GC/S - ATMOSPHERICS 17744 N63-18225-0217-15
POLARIZATION - EXPERIMENTAL OPTICS AND ELECTROMAGNETIC RADIATION THEORY AFCRL-62-796 N63-12024 05-23	OPTIMIZATION OF ELECTROMAGNETIC ENERGY RECEPTION FROM MAYE WITH POLARIZATION CHARACTERISTICS UNKNOWN OR INCOMSTANT RADC-RAL-TM-63-9 N63-18377 17-09
TYPE III SOLAR RADIO NOISE - FREQUENCY POLARIZATION AND DRIFT RATE BN-290 N63-12077 05-05	WAVEFORMS FOR POLARIZED LIGHT TRANSMISSION THROUGH CONSTANT AND TIME VARYING PAIR OF BIREFRINGENT PLATES
TYPE IV SOLAR RADIO NOISE N63-12078 05-05	INSTRUMENTATION USED IN SEARCHLIGHT TECHNIQUES
POLARIZATION OF ANTHRACENE CRYSTALS WITH LIQUID ELECTRODES N63-12162 05-19	ATMOSPHERIC OPTICS - LIGHT SCATTERING TECHNIQUES POLARIZATION - PHOTOMETERS AID-P-63-92 N63-19294 18-15
POLARIZATION OF MU-MESONS, WITH MOLLER SCATTERING IN MAGNETIZED IRON PLATES OF SPARK CHAMBER LNF-62-61 N63-12566 06-23	ARCTIC METEOROLOGY PHOTO PROSE - POLARIZED LIGHT EXPERIMENT FOR CLOUD COVER PHOTOGRAPHS MASA-TN-0-1449 M63-19370 18-21
INTERFERENCE EFFECTS IN THE TOTAL CROSS SECTION FOR PAIR PRODUCTION ON CRYSTALS AND ITS DEPENDENCE ON POLARIZATION OF GAMMA RAYS LNF-62-70 N63-12571 06-25	MEASURING POLARIZATION OF LIGHT IN FOG AID-Y-63-102 N63-19396 18-23
PERFORMANCE OF DIAMOND CRYSTAL RADIATOR AS GAMMA RAY BEAM POLARIZER LNF-62-87 N63-12575 06-23	CROSS SECTIONS, ANGULAR DISTRIBUTION, AND POLARIZATIONS OF STRANGE PARTICLE PRODUCTION BY MESONS. UCRL-10838 M63-20712 21-23
CIRCULAR POLARIZATION OF HIGH EMERGY GAMMA RAY BEAMS BY DIREFRINGENT SINGLE CRYSTALS LNF-62-84 N63-12613 06-25	ELASTIC POSITIVE K-RESON PAOTON SCATTERING POLARIZATION OF RECOIL PROTONS M63-20697 21-23

STATE OF POLARIZATION OF RED AND GREEN O-LINES IN POLAR AURORAE - AURORAL SPECTROSCOPY N63-20978 21-12	POLYATORIC GAS KINETIC THEORY OF TRANSPORT PROPERTIES OF MULTICOMPONENT POLYATORIC GAS MIXTURES N63-14547 10-2
LIGHT EMISSION FROM GOLD FOILS BY HIGH ENERGY ELECTRON BEAM - POLARIZED LIGHT ORNL-3468 - 21-23	FREE MOLECULAR FLOW OF POLYATOMIC GAS - ACCOMMODATION COEFFICIENT EVALUATION
JUPITER RADIATION CONDITIONS - ROTATION PERIOD, POLARIZATION ANOMALIES, POWER AND ENERGY IN	COA-159 N63-19355 18-1 RELATION OF THERMOCONDUCTIVITY, MOLECULAR MEIGHT,
DECAMETER STORMS N63-21063 21-28	VISCOSITY & HEAT CAPACITY OF NONPOLAR POLYATONIC GASES N63-19389 18-2
POLARIZATION OF SYNCHROTRON RADIATION AND THE QUASI-TRANSVERSE PROPAGATION REGION NASA-TH-X-50725 N63-22172 23-28	NONEQUILIBRIUM FLOW OF POLYATOMIC GAS THROUGH NORMAL SHOCK WAVE
DEPOLARIZATION OF SCATTERED LIGHT BY M-PARAFFIN VAPORS TO EXPLORE PRINCIPLE OF ADDITIVITY OF BOND	ARC-CP-645 FORMAL KINETIC THEORY FOR TRANSPORT PHENOMENA IN
POLARIZABLE TENSORS ONR-TR-63 23-23	POLYATORIC GAS MIXTURE N63-23410 124-1
POLARIZATION EFFECTS IN LEPTOM-PROTON ELASTIC SCATTERING CALCULATED USING ISOBARIC MODEL N63-23398 24-23	POLYATOMIC MOLECULE KINETIC THEORY OF MONSPHERICAL MOLECULES — SOLUTIONS FOR BOLTZMANN EQUATIONS AND TRANSPORT COEFFICIENTS FOR INELASTIC POLYATOMIC COLLISIONS WIS-TCI-6, SER. 2 N63-12354 06-1
ATONIC BEAM APPARATUS WITH VAN DE GRAAFF GENERATOR TO PRODUCE POLARIZED ION RADIATION - EXCITATION INTERACTION WITH ION SOURCE N63-23542 24-23	FRANCK-CONDON PRINCIPLE AND ELECTRONIC STRUCTURES OF POLYATOMIC MOLECULES IN EXCITED STATES
POLARGGRAPHY ELECTRODE KINETICS - USE OF ALTERNATING CURRENT	N63-17777 16-2 RELAXATION EFFECTS IN TRANSPORT PROPERTIES OF
IN STUDY OF POLAROGRAPHIC DISCHARGE N63-14061 09-23	ROUGH SPHERE GAS - KINETIC THEORY OF POLYATOMIC MOLECULES
DETECTION OF OXYGEN BY GAS-PHASE POLAROGRAPHY AT	NASA-CR-50595 N63-18877 18-1 ELECTRONIC SPECTRA OF POLYATOMIC MOLECULES
NASA-CR-50605 N63-18489 17-07	METHOD FOR STUDYING FLUORESCENT EMISSION N63-23083 24-2
URANIUM DETERMINATION AT MICROGRAM LEVELS BY DERIVATIVE POLAROGRAPHY	POLYBENZYLOG-KEY OF TATE BJEATEATON SHT RELI
BNL-800/T-307/ N63-22233 23-07	RATE AND MECHANISM OF PYROLYSIS OF POLYBENZYL NOLTR-62-59 N63-10893 02-0
POLE SA REGGE POLE FILTERS WITH POLES HAVING EQUAL VERTICAL SPACING PIBMRI-1077-62 N63-12697 06-09	POLYBUTADIENE MECHANICAL PROPERTIES OF SOLID PROPELLANTS - POLYBUTADIENE AND POLYURETHANE COMPOSITIONS N63-12110 05-2
SPHERICAL SHELL UNDER POINT LOADS AT ITS POLES G11-75 N63-16244 13-33	MEASUREMENT OF DYNAMIC SHEAR COMPLIANCE OF ALUMINIZED POLYBUTADIENE-ACRYLIC ACID-
POLISHING VIBRATORY POLISHING VARIABLES IN METALLOGRAPHY 15-662 N63-21653 22-18	ACRYLONITRILE PROPELLANT - COMBUSTION INSTABILITY N63-15595 12-2
THERMAL SPECTRAL RADIATION OF POLISHED & COATED	PHOTOMECHANICAL LAW FOR STEREOSPECIFIC POLYBUTADIENE
MADD-TR-60-370, PART III	ARA-T-9226-1 MARA MARA MARA MARA MARA MARA MARA MAR
POLLUTION ROCKET POLLUTION OF UPPER ATMOSPHERE - CHANGES IN COMPOSITION, TEMPERATURE, ELECTRON DENSITY, AND	CF SYNTHETIC RESINTED THE PROPERTY OF THE PROP
AIRGLOH GCA-TR-62-18-G N63-12770 06-12	ELECTRON SPIN RESONANCE IN POLYCRYSTALLINE GRAPHITE
MISSILE PROPELLANT EFFECT ON ENVIRONMENTAL	WADD-TR-61-72, VDL. VIII N63-10630 02-1
POLLUTION AMRL-TDR-63-75 N63-23574 24-26	INSULATION RESEARCH — HYSTERESIS LDOP, SWITCHING OF POLYCRYSTALLINE GARNETS — FERROMAGNETISM NO3-11290 09-2
PRODUCTION OF SHORT-LIVED INTRINSIC RADIOTRACERS	DYNAMIC SQUARENESS IN POLYCRYSTALLINE GARNETS -
FOR INDUSTRY PROCESS CONTROL N63-11729 04-17	HYSTERESIS LOOP AND SWITCHING M63-11291 03-2
MEASUREMENT OF DECAY OF TRAPPED-FLUX IN SUPER- CONDUCTING RING UNDER BOMBARDMENT OF ALPHA	DEFORMATION AND FRACTURE OF POLYCRYSTALLINE
PARTICLES FROM POLONIUM-210 LNF-62-85 N63-12574 06-23	UCRL-10435 N63-11797 04-1
VAPOR-LIQUID EQUILIBRIUM OF DILUTE SOLUTIONS OF POLONIUM IN LIQUID BISMUTH	MECHANICAL BEHAVIOR OF SINGLE AND POLYCRYSTALLIME CESIUM BROMIDE - NECHANISMS OF PLASTIC DEFORMATIO AND FRACTURE
HLH-937 A POETH BUTTON AND AN OLETHIBUTTON A TOP-	UCRL-10468 N63-11999 05-1
OLYAMIDE CF NYLON CF SYNTHETIC FIBER	ISOTROPIC ELASTIC MODULUS OF MAGNESIUM OXIDE AT THEORETICAL DENSITY
HIGH STRENGTH LANINATED PRESSURE VESSEL OF LAP-	AROD-2891-5 N63-13437 08-3
JOINT CONSTRUCTION USING MARAGING STEEL AND POLYAMIDE EPOXY RESIN ADMESIVE	MICROSTRUCTURE TESTING OF POLYGRYSTALLINE ALUMINU AND MAGNESIUM OXIDES

74 72-65 10-23

18-11 GHT, HJC 18-23

20-11

IN 24-11

IT INS 16-11 RES 6-23 C 8-11

4-23

2-07

1-24

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-19

-19 6 -25

-25

-19 E 19

33

UN

18

HICROSTRUCTURE OF POLYCRYSTALLINE REFRACTORY DXIDES - ALUMINUM AND MAGNESIUM OXIDES	POLYETHYLENE CONTAINERS M63-17066 15-19
RAD-SR-63-29	RADIATION-INDUCED POLYMERIZATION - TRANSPARENT
DELAYED FAILURE OF POLYCRYSTALLINE AND SINGLE CRYSTAL ALUMINA - SAPPHIRE N63-16396 14-33	MOISTUREPROOF PLASTIC COATINGS - POLYETHYLENE HALOGENATION
YIELD BEHAVIOR OF POLYCRYSTALLINE NIOSIUM	FRICTIONAL PROPERTIES OF POLYETHYLENES AND
HIGH PURITY BERYLLIUM - ZONE REFINING, SINGLE	PERFLUGROCARBON POLYMERS NRL-5945 N63-10120 16-19
CRYSTAL STUDIES, POLYCRYSTALLINE STUDIES, ELECTRON TRANSHISSION MICROSCOPY AND SELF-DIFFUSION	MEUTRON THERMALIZATION - TRANSPORT THEORY AND
Q-81933-5 years plant to a read months N63-16795 year 14-18	SPECTRA OF ZIRCONIUM HYDRIDE AND POLYETHYLENE GA-3053 N63-10126 16-23
RELATIONSHIP OF TWINNING TO BRITTLE FRACTURING IN REFRACTORY NETALS, SINGLE AND POLYCRYSTALLINE NOLYBDENUM AND NIOBIUM ASD-TDR-63-360	RADIATION INDUCED PLASTIC MEMORY IN POLYETHYLENE AND USE IN SPACE ERECTABLE STRUCTURES NASA-CR-50447 N63-18164 16-19
POLYCRYSTALLINE MAGNESIUM OXIDE - DISLOCATIONS AND	CAC-TIGHT DOLVETHYLENE SLEEVE FOR ROTATING-REAN
TENSILE STRENGTH HR-63-252 M63-18083 16-19	FATIGUE TESTING MACHINES N63-18176 16-33
ELASTIC PROPERTIES OF POLYCRYSTALLINE NAGNESIUM-	THERMODYNAMIC PROPERTIES OF POLYETHYLENE OVER TEMP
ALUMINATE SPINEL AS FUNCTION OF MICROSTRUCTURE AROD-2891-7 M63-18769 17-25	RAMGE TO 6000-DEG K AND PRESSURES TO 1 MILLION ATM - TABLES AND GRAPHS RR-3709-PR N69-19161 18-23
CHARACTERISTICS OF POLYCRYSTALLINE ELECTROLUMINESCENT AND PHOTOCOMOUCTIVE MATERIALS -	HOT FLOW CHARACTERISTICS OF POLYETHYLENE AFTER
EFFECT ON OPTOELECTRIC LOGIC AND MEMORY ARRAYS R63ELS-9 R63ELS-9 R63ELS-9	EXPOSURE TO MUCLEAR RADIATION N63-19439, 19-19
FATIGUE MECHANISMS IN SINGLE CRYSTAL AND	RELAXATION TIME OF POLYETHYLENE DISULFIDE AND
POLYCRYSTALLINE ALUMINUM - ELECTRON MICROSCOPY N63-19012 18-18	POLYETHYLENE TETRASULFIDE M63-21024 21-07
EFFECT OF SURFACE FINISH ON STRENGTH OF	INTERACTION AND ABSORPTION PARAMETERS FOR HEAVY
POLYCRYSTALLINE MAGNESIUM OXIDE AROD-2884-1	COSMIC RAY NUCLEI IN HYDROGENOUS ABSORBERS - POLYETHYLENE AND TETRAFLUORDETHYLENE
GROWTH OF SINGLE AND POLYCRYSTALS OF RARE-EARTH	P DF 04-7 1205 E S E M T 1 M 1
METALS AND TRANSITION ELEMENTS N63-19412 19-18	THERMOANALYTIC STUDIES OF THERMAL STABILITY OF HIGH POLYMERS - AUTOMATIC RECORDING THERMOBALANCE
MAGNETORESISTIVE BEHAVIOR OF POLYCRYSTALLINE	6 THERMOGRAVIMETRIC ANALYSIS OF POLYETHYLENE N63-23054 24-15
INDIUM PLATES IN MAGNETIC FIELDS N63-20713 21-25	CHEMICAL REACTIONS AND PROPERTIES OF POLYETHYLENE
GALVANOMAGNETIC EFFECTS IN POLYCRYSTALLINE	GLYCOLS AND THEIR HITRATES TIL/T.5342 N63-23397 24-07
SENICONDUCTORS NASA-TN-0-1840 N63-22709 23-09	POLYISOBUTYLENE CHOR MERCORTIN-MODILIES NITH CERENY 104 07
THERMOELECTRIC CONVERSION OF POLYCRYSTALLINE CERANIC MATERIALS N63-23494 24-18	TRANSIENT PHOTOCOMDUCTIVITY OF POLYSTYREME AND POLYISOBUTYLENE EXPOSED TO PULSES OF MEUTRON TRANSIATION AND GAMMA RADIATION
POLYEPOXIDE TO ARREST TO THAT THE TANK THE TRANSPORT	SCR-525 45 Com N63-18972 16-23
CF SYNTHETIC RESIN TO THE METERS AND THE METERS OF PERSON AND THE PROPERTY OF PERSON AND THE PER	POLYMER SA METAGLOSILOXANE POLYMER SA MITROGEN POLYMER
POLYESTER CF SYNTHETIC FIBER RETYAGE THOLE ROT BOOM SETTIFULLY	SA NITROGEN POLYMER SA SILICON POLYMER
OF SYNTHETIC RESIN BURNING RATE OF PERCHLORATE-POLYESTER, CASTABLE,	CF ELASTOMER POLYMERS, PLASTICS, SYNTHETIC FIBERS - LITERATURE
SOLID PROPELLANTS N63-10766 02-26	REVIEW CORL-SP-4-34 N63-10073 01-19
POLYETHYLENE LIALIS GROUNT HOLITAIGAS SO SELMANSH CF SYNTHETIC RESIN ALT TO SAUTKIA RESTRICT SECTIONS	ENCAPSULATION OF LIQUID PROPELLANT WITHIN POLYMER
MELTING OF POLYETHYLENES TIL/T-5331 M63-10581 02-07	WALL 10090 01-07
CRYSTALLINITY OF POLYETHYLENE AND POLYPROPYLENE -	ABLATION MECHANISMS OF CHARRING POLYMERS DURING HYPERSONIC REENTRY N63-10099 01-19
COMPARISON OF METHODS ONE-TR-50 N63-11556 04-07	REVIEW OF POLYMER AND PLASTIC MATERIALS
FLASH RADIOGRAPHIC MEASUREMENT OF THE SHOCK	CRDL-SP-5-1 N63-10636 01-19
COMPRESSIBILITY OF MAGNESIUM ALLOY, LUCITE, AND POLYETHYLENE AFSUC-TOR-62-134 N63-13522 OB-33	EFFECTS OF HIGH VACUUM AND RADIATION ON POLYMERIC MATERIALS NAS-10922 02-19
	LASER AS A LIGHT SOURCE FOR PHOTOGRAPHEC LIGHT SCATTERING FROM POLYMER FILMS
MATERIALS AND COMPOUNDS	ONR-TR-46 04-23
GAMMA RAY PHOTOCONDUCTIVITY IN ORGANIC DIELECTRIC MATERIALS AND COMPOUNDS SCDC-2500 PLEXIGLAS COMBUSTION TEMPERATURE MEASUREMENTS -	HYDROGEN BONDING RELATED TO VISCOELASTICITY OF AMORPHOUS POLYMER NETWORKS - HODULUS TEMPERATURE
BURNING RATES OF POLYSTYRENE, ALUMINUM, ALUMINUM HYDRIDE AND POLYETHYLENE	RELATIONSHIPS OF METHACRYLATES ONR-TR-RLT-55
R-5179	ORGANIC POLYNERS AS SENICONDUCTORS
PLASTIC HATERIAL USED AS SAFETY CONTAINERS -	N63-12161 05-25

PROFESSION OF THE PROFESSION O

P

	THE PROPERTY OF THE PROPERTY O
CHEMICAL, SOLAR, NUCLEAR ENERGY - THERNOELECTRIC & THERNIONIC DEVICES - METALLURGY, REFRACTORY,	AROD-2336-2 N63-14616 10-07
POLYMERIC & COMPOSITE MATERIALS - ABSTRACTS TDR-930/2701-01/TN-1, VOL. 11	FLEXIBLE POLYMERS FOR THERMAL INSULATION IN SOLID PROPELLANT ROCKET ENGINES N63-15377 12-27
VISCOELASTIC PROPERTIES OF PRESHOLLEN POLYMERS IN	ROCKET LINER PROGRAM - CATALYST FOR CURING STANNO SILOXANA POLYMERS
THE TRANSITION REGION ONE-TR-RLT-56 N63-12662 06-19	ROC/LIN-8Q N63-15416 12-07
ROCKET LINERS - METALLOSILOXANE COPOLYMERIC ELASTOMERS	OSCILLATORY BURNING IN SIDE-RENTED CYLINDRICAL CHAMBER FOR STUDYING BURNING OF END-BURNING PROPELLANT GRAINS - COMBUSTION INSTABILITY
ROC/LIN-FINAL MODELLA N63-12667 06-19	MG12U1970-1,82 DPA VSCC2DRU N63-15593 12-26
ELASTOMERIC POLYMERS AS SEALS AT CRYOGENIC TEMPERATURES NBS-7234 N63-12706 06-19	MEASUREMENT OF DYNAMIC SHEAR COMPLIANCE OF ALUMINIZED POLYBUTADIEME-ACRYLIC ACIO— ACRYLONITRILE PROPELLANT — COMBUSTION INSTABILITY
INFLUENCE OF GAMMA RADIATION AND ALKALI TREATMENT ON PYROLYSIS OF POLYTRIFLUOROETHYLENE M83-12707 06-07	N63-15595 12-26 INFLUENCE OF HYDROGEN BOND ON VISCOELASTIC PROPERTIES OF METHACRYLATE POLYMERS -
VISCOMETRIC DETERMINATION OF MOLECULAR WEIGHT	TEMPERATURE - MODULUS STUDIES N63-15611 12-07
OF POLYMERS	MICROSTRUCTURE TESTING OF RESIN POLYMER MECHANICAL
TIL/T-5363 N63-12722 06-07 RUBBER ELASTICITY OF PRESMOLLEN POLYMER NETWORKS	PROPERTIES AND RHEOLOGICAL BEHAVIOR OMERA-TN-71 OMERA-TN-71 DESCRIPTION OF RESTREE POLYMER RECHANICAL PROPERTIES AND RHEOLOGICAL BEHAVIOR OMERA-TN-71 12-17
BY TORSION TESTS ONR-TR-RLT-57 N63-12756 06-07	ROCKET LINER PROGRAM - STANNOSILOXANE POLYMER
RADIATION EFFECT IN POLYMERS AND GRAFT POLYMERIZATION BY ELECTRON PARAMAGNETIC RESONANCE	MATERIAL FOR ROCKET MOTOR CASE INSULATION APPLICATION ROC/LIN-70 N63-15843 13-07
BMI-1610 N63-12999 07-19 SYNTHESIS OF SILCARBANE POLYMERS FOR HIGH	EFFECTS OF GLASS SURFACES UPON EPOXIDE POLYMERS NOLTR-63-10 N63-15844 13-07
TEMPERATURE RESISTANCE RIA-62-4162 M63-13119 07-07	FLEXIBLE POLYMERS AS THERMAL INSULATION IN SOLID
VISCOELASTICITY OF AMORPHOUS AND CRYSTALLINE POLYMERS - MODULUS-TEMPÉRATURE RELATIONSHIPS.	PROPELLANT ROCKET ENGINE - PHENOL, EPOXY, AND FURAN RESINS N63-15876 13-07
CROSS-LINKING ONR-TR-RLT-58 N63-13205 07-19	DEVELOPMENT OF FLEXIBLE POLYMERS AS THERMAL INSULATION IN SOLID-PROPELLANT ROCKET ENGINES — STUDY OF EPDXY AND PHENOL RESINS
VULCANIZATION OF FLUORINE-CONTAINING POLYMERS - HEXAFLUOROPROPYLENE-VINYLIDENE FLUORIDE COPOLYMER,	M63-15877 13-07
VITON-A RUBBER. N63-13244 07-07 RADIATION EFFECT ON DIELECTRIC AND THERMAL	BIOLOGICALLY IMPORTANT POLYANION-ORGANIC CATION COMPLEXES AS ENERGY TRANSFER SYSTEMS AFCRL-63-426 N63-15952 13-07
EXPANSION PROPERTIES OF HIGH POLYMERS TID-16273 N63-13378 08-23	SYNTHESIS OF HIGH TEMPERATURE ELASTOMERS OF POLYPHENYLETHER-SILOXAME BLOCK COPOLYMERS WITH
POLYMERS WITH SILICON-NITROGEN BONDS N63-13639 08-07	REGULATED STRUCTURES N63-16181 13-07
STUDY OF SILICON-NITROGEN POLYMERS FOR PROTECTIVE COATING AND THERMAL SHIELDING APPLICATIONS N63-13646 08-07	TENSILE IMPACT ON RUBBER AND NYLON - IMPULSE MAYE PROPAGATION AND CREEP IN POLYMERIC HATERIALS - STRUCTURAL DYNAMICS N63-16617 14-19
STUDY OF SILICON-NITROGEN POLYMERS FOR PROTECTIVE COATING AND THERMAL SHIELDING APPLICATIONS	SYNTHESIZING HEAT RESISTANT POLYMERS HAVING RINGS IN CHAIN RAE-TRANS-1028 N63-17025 15-01
N63-13647 08-07 STUDY OF SILICON-NITROGEN POLYMERS FOR PROTECTIVE	LATTICE MODEL FOR LIGHT SCATTERING FROM CRYSTALLINE POLYMERS
COATING AND THERMAL SHIELDING APPLICATIONS N63-13648 08-07	ONE-TR-49 N63-17526 16-25 MECHANISM OF RADIATION-INDUCED GELATION IN
POLYMERS WITH SILICON-NITROGEN BONDS FOR COATING MATERIAL N63-13649 08-07	MONOMER-POLYMER MIXTURES OF PLASTIC MATERIALS RAI-320 N63-17546 16-07
POLYMERS WITH SILICON-NITROGEN BONDS FOR COATING MATERIAL N63-13650 08-07	DETERMINATION OF STATE OF BIAXIAL ORIENTATION IN CRYSTALLITES OF POLYCRYSTALLINE POLYMER BY X-RAY DIFFRACTION
LINEAR POLYMERS CONTAINING ALUMINUM - CHELATES, STEROIDS, STABILITY	ONR-TR-51 N63-17605 16-25
PA-TH-1060 N63-14470 10-07 FLIGHT VEHICLE POWER & MATERIALS - CHEMICAL, SOLAR	EFFECT OF MECHANICAL AND HEAT TREATMENT ON X-RAY DIFFRACTION PATTERNS OF POLYBUTENE-I ONR-TR-52 N63-17717 16-07
E NUCLEAR ENERGY — ELECTRIC, ELECTRONIC, MAGNETIC, POLYMERIC & COMPOSITE MATERIALS TDR-930/2701-01/TN-1/11PT 1-43	POLYMERIC MATERIALS FOR SPACECRAFT APPLICATION JPL-SR-353-1
N63-14539 10-01	FRICTIONAL PROPERTIES OF POLYETHYLENES AND
ELECTRON TRANSFER REACTIONS AND FORMATION OF POLYRADICAL ANIONS	PERFLUOROCARBON POLYMERS MRL-5945 N63-18120 16-19
ELECTRONIC EFFECTS IN BASE-CATALYZED ELIMINATION REACTIONS - ENERGY LEVEL AND MOLECULAR BONDING	RADIATION PROGRAM SUMMARIES - DOSIMETRY, HALOGEN COMPOUND, POLYMERS, MONOMERS, GAMMA RADIATION, AND NEUTRON TRANSMUTATION
RELATED TO ISOMERISM OF POLYMERS	BNL-790/C-37/ 02 Y13482 ZA C38U N63-18295 17-07

0-07 L10 2-27 HNO 2-07

-26

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-07 CAL

-07 -07

07

07

9

5

PROTEINOIDS PREPARED BY THERNAL COPOLYMERIZATION OF AMINO ACIDS - CONDITIONS FOR AMINO ACID RECOVERY FOLLOWING HYDROLYSIS NASA-CR-50418 N63-18388 17-07	POLYMERIZATION CF CHEMICAL REACTION POLYMERIZATION OF ROOM TEMPERATURE CURING EPOXY RESINS
16 t 19000 18-17	H01TR-62-1 H63-10111 01-19
SENICONDUCTORS, POLYHERS, FLUIDS, CERANICS,	INTERNAL POLYMERIZATION OF TWO MONOMERS IN THREE
DOSINETRY REIC-28 M35Y12Y FOR CHIEF N63-19714 19-23	TYPES OF PAPER RIA-62-3289 N63-11447 03-19
MASTER CURVES AND VISCOELASTIC BEHAVIOR OF AMORPHOUS POLYMERS IN STRESS RELAXATION	POLYMERIZATION IN CELLULOSE - EXCHANGE REACTION BETWEEN CALCIUM AND CARBOXYL GROUPS IN CELLULOSE - STRENGTH PERFORMANCE
THERMAL STABILITY OF POLYMERIC MATERIALS	RIA-62-554 1 3 3 4 4 3 4 10 10 10 1 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
ARDO-3301-1 N63-20224 20-07 THERMODYNAMICS AND HEAT CAPACITY OF POLYMER	SYNTHESIS OF ELASTOMERS CONTAINING SILICON- MITROGEN BONDS - SCREENING OF MONOMERS FOR POLYMERIZATION 05-07
GLASSES RSIC-47 N63-20593 20-19	RADIATION EFFECT IN POLYMERS AND GRAFT
CONCERN CATLON AND THE VIEW SERVED THE CONTRACTOR	POLYMERIZATION BY ELECTRON PARAMAGNETIC RESONANCE
HIGH MOLECULAR WEIGHT COPOLYMERS SYNTHESIZED FROM DIHYDROXYDIPHENYL ETHER AND DICHLOROSILANE	BAI-1610 07-19
MONOMERS N63-20955 21-07	POLYMERIZATION OF ALLYL MONOMERS BY MEANS OF GAMMA RADIATION
DEGRADATION OF POLYMERS BY HIGH VACUUM SPACE ENVIRONMENT - MASS SPECTROSCOPY OF VOLATILE	RIA-62-4163
MATERIALS NASA-CR-50952 N63-21049 21-29	REACTION OF ALLYLTRICHLOROSILANE WITH GLYCIDYL METHACRYLATE - PRODUCT POLYMERIZATION NOLTR-62-166 100 100 100 100 100 100 100 100 100
UNCONVENTIONAL POLYMERIZATION TECHNIQUE AND BORON	A 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
SEMI-INORGANIC POLYMERS - PROPERTIES ERR-FW-124 M63-21117 21-19	PREPARATION OF WOOD-PLASTIC COMPOSITE MATERIAL USING GAMMA RADIATION TO INDUCE POLYMERIZATION -
VISCOSITY AND FLOW CHARACTERISTICS OF POLYMERS	ORD-600 N63-14860 11-07
WITH DISPERSE FILLERS RSIC-51 N63-21228 21-19	POLYMERIZATION OF SILANE MONOMER TO SILICONE
HIGH TEMPERATURE RESISTANT POLYMERIC FILM-FORMING	ELASTOHERS N63-15200 12-07
MATERIALS NASA-CR-50953 N63-21351 22-19	SYNTHESIS OF HIGH TEMPERATURE ELASTOMERS OF POLYPHENYLETHER-SILOXANE BLOCK COPOLYMERS WITH
COMPOUNDS AND POLYMERS CONTAINING SILICON-NITROGEN	REGULATED STRUCTURES
BONDS FOR SPACE VEHICLE USE - COATINGS, HYDRAULIC FLUIDS AND IMPREGNATING RESINS FOR GASKETS NASA-CR-51374 N63-21735 22-07	RADIATION—INDUCED POLYMERIZATION — TRANSPARENT MOISTUREPROOF PLASTIC COATINGS — POLYETHYLENE HALOGENATION
CALCULATION OF ELECTRON ENERGY DEPOSITION IN THIN-	RAI-303 NA3-17187 15-07
FILM POLYMERIC MATERIALS NASA-TN-D-2010 N63-21896 22-19	MECHANISM OF PHOTOSENSITIZED POLYMERIZATION OF METHYL METHACRYLATE AT ZINC OXIDE CATALYTIC SURFACES - THORGANIC CHEMISTRY
RECENT DEVELOPMENTS IN PRODUCTION OF SILICONE	N63-17978 16-07
POLYMERS JPRS-21147 N63-22102 22-07	PROTEINDIDS PREPARED BY THERMAL COPOLYMERIZATION OF AMINO ACIDS - CONDITIONS FOR AMINO ACID
SPHERULITE DEFORMATION IN POLYBUTENE ONR-TR-62 N63-22409 23-19	RECOVERY FOLLOWING HYDROLYSIS MASA-CR-50418 N63-18388 17-07
THERMOGRAVIMETRIC METHOD OF DETERMINING PYROLYSIS OF POLYMERS - KINETIC TECHNIQUE AND THERMAL	POLYMERIZATION OF SILANES AND CYCLOSILANES TO POLYMERS CONTAINING SILICON-MITROGEN BONDS
CYCLING NOLTR-63-113 N63-22491 23-19	NASA-CR-50736 70 506 100 1000 1 N63-19262 30 18-07
THERMAL PROPERTIES OF HIGH STABILITY POLYMERS	HIGH PRESSURE POLYMERIZATION BY GARMA RADIATION - TEST CELL, INSTRUMENTATION
N63-22697 23-13	BNL-796/T-305/ N63-20958 21-07
POLYPHENYLETHER-SILOXANE BLOCK COPOLYMERS N63-22844 23-07	UNCONVENTIONAL POLYMERIZATION TECHNIQUE AND BORON SEMI-INORGANIC POLYMERS - PROPERTIES
THERMOANALYTIC STUDIES OF THERMAL STABILITY OF HIGH POLYMERS - AUTOMATIC RECORDING THERMOBALANCE	POLYMERIZATION OF CONJUGATED TRIENES N63-23498 24-07
E THERMOGRAVIMETRIC ANALYSIS OF POLYETHYLENE N63-23054 24-15	2 CONTINUES CONTINUES OF THE BOOK OF THE BOOK AND THE THE BOOK OF THE PROPERTY
MECHANICS OF CREEP & IMPACT FOR PLASTICS - STATIC	POLYMETHYL METHACRYLATE CF SYNTHETIC RESIN
& DYNAMIC STUDIES ON LINEAR POLYMERIC MATERIAL & HIGH STRAIN RATE BEHAVIOR OF PLASTIC MATERIALS	TOU WHOS BUTCH
AROD-3263-7. N246716 20 475 11 N63-23056 24-19	CALCITE-ARAGONITE TRANSITION IN LINESTONE BY
POST-MODIFICATION OF CONJUGATED TRIENE POLYMERS	PHASES NG-12
VIA DIELS-ALDER CONDENSATION USING DIENOPHILIC AGENTS N63-23500 24-19	FUSION CURVES AND POLYMORPHIC TRANSITIONS OF GROUP
-QUALITARIVE REPORT ON A SERRE AND TARGET OF STREET ON	III ELEMENTS /ALUMINUM, GALLIUM, INDIUM, AND
RELAXATION TIME OF POLYETHYLENE DISULFIDE AND	CR SYNTHEYIC RESIDE FORMS (0011200)
POLYETHYLENE TETRASULFIDE ONR-TR-RLT-65	SA HERMITIAN POLYNOMIAL
一片 3 一 21/10	SA JACOBI POLYNOMIAL ROOTS OF REAL POLYNOMIAL INSIDE UNIT CIRCLE
TO-SENCERETAPERSHIPE POPULATION OF UNESSEED-AIR	The state of the s

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188

POI

CATALOGIC CONTROL CONT	SOUTHWEST PRODUCTION OF THE PROPERTY AND THE PROPERTY OF THE P
AND STABILITY CRITERION FOR LINEAR DISCRETE SYSTEMS AFOSR-2443 N63-13165 07-20	GAMMA RAY PHOTOCONDUCTIVITY IN ORGANIC DIELECTRIC MATERIALS AND COMPOUNDS SCDC-2580 N63-14521 10-23
POLYNOMIALS ENCOUNTERED IN STUDY OF DISTRIBUTION FUNCTION OF SPACINGS OF EIGENVALUES OF RANDOM MATRIX	POLYSTYRENE CF SYNTHETIC RESIN POLARIZATION INDUCTION OF DIELECTRIC MATERIALS BY
BNL-757/T-280/ N63-13552 08-20	SHOCK WAVES, UTILIZING POLYSTYRENE BRL-MEMO-1449 N63-13915 09-23
POLYNOMIAL FIT TO DEFINING POINTS FOR MEAN MOLECULAR WEIGHT IN 1962 U.S. STANDARD ATMOSPHERE GCA-TR-63-4-A N63-14363 10-20	PLEXIGLAS COMBUSTION TEMPERATURE MEASUREMENTS - BURNING RATES OF POLYSTYRENE, ALUMINUM, ALUMINUM HYDRIDE AND POLYETHYLENE
CUBIC POLYNOMIAL METHOD OF CURVE FITTING Y-1400 N63-14977 11-20	R-5179 1193TAM 1838Y 179 N63-16188 13-26
PROPERTIES OF POLYNOMIALS ASSOCIATED WITH GENERAL SECOND-SPECIES LAGUERRE FUNCTIONS N63-15049 11-20	TRANSIENT PHOTOCONDUCTIVITY OF POLYSTYRENE AND POLYISOBUTYLENE EXPOSED TO PULSES OF NEUTRON IRRADIATION AND GAMMA RADIATION SCR-525 M63-18972 18-23
RATIONAL FUNCTION APPROXIMATION OF POLYMOMIALS WITH EQUIRIPPLE ERROR - NETWORKS R-159 N63-15500 12-20	THERMODYNAMIC PROPERTIES OF POLYSTYRENE- HYDROCARBON CHEMICAL VAPOR DEPOSITION SYSTEM RM-3708-PR N63-19116 18-23
PARAMETER-DEPENDENT PROGRAMMING - COMPUTER METHOD FOR QUADRATIC OBJECTIVE FUNCTION, LINEAR SECONDARY CONDITIONS, AND POLYNOMIAL OF PARAMETERS	STRESS RELAXATION OF MONODISPERSE AND POLYDISPERSE POLYSTYRENE - SHEAR VISCOSITY AND SHEAR ELASTICITY ONR-TR-RLT-63 N63-19823 19-19
DVL-238 N63-16278 13-11 POWER SERIES - ZEROS OF POLYNOMIALS NRC-398 N63-16594 14-20	POLYTETRAFLUGROETHYLENE CF SYNTHETIC RESIN CF TEFLON
ROUTINE FOR COMPUTING REAL AND COMPLEX ROOTS OF POLYNOMIALS WITH REAL COEFFICIENTS TO TENTH DEGREE BRL-MEMO-1467 M63-17232 15-20	POLYTROPE COLLAPSE PHASE OF EARLY SOLAR EVOLUTION NASA-TN-D-1682 N63-12594 06-29
APPROXIMATE COMPUTATION OF FUNCTIONS - CHEBYSHEV APPROXIMATION OF POLYNOMIALS - ASYMPTOTIC METHOD AND APPLICATION OF BESSEL FUNCTIONS EUR-282.F N63-18230 17-20	POLYTROPIC PROCESS SUDDEN ENERGY RELEASE AT CENTER OF THEORETICAL POLYTROPIC STAR CARRYING MAGNETIC DIPOLE AGES-63-8 N63-22061 22-05
VARIABLE LEAST SQUARE APPROXIMATION OF POLYNOMIALS - GUIDANCE SYSTEMS N63-18699 17-20	GROOVED PLATE VISCOUS SHEAR COMPRESSOR UNDER POLYTROPIC FLOW CONDITIONS MTI-62TR21 M63-23753 24-33
COMBINATIONS OF LEAST-SQUARES APPROXIMATIONS USED IN SOLVING CORRELATED VARIABLE POLYNOMIALS NASA-CR-50831 19-20	POLYURETHANE CF SYNTHETIC RESIN FABRICATION OF FOAMED POLYURETHANE STRUCTURES IN A SPACE ENVIRONMENT M63-10923 02-19
TRANSFER FUNCTION SYNTHESIS FOR LINEAR DYNAMIC SYSTEM AS RATIO OF TWO POLYNOMIALS ANL-6716 N63-19825 19-20	MECHANICAL PROPERTIES OF SOLID PROPELLANTS - POLYBUTADIENE AND POLYURETHANE COMPOSITIONS NA3-12110 05-24
NILPOTENT OPERATORS, JORDAN CANONICAL FORM, SEGRE CHARACTERISTICS, AND MINIMAL POLYNOMIALS N63-22742 23-20	EFFECTS OF LOAD PULSE ON SHOCK ABSORBING CHARACTERISTICS OF VERNICULITE CONCRETE AND POLYURETHANE PLASTIC
QUADRATIC FACTORS OF POLYNOMIALS NASA-CR-52238 N63-23816 24-20	DASA-1299 N63-12182 05-33
POLYNUCLEOTIDE ENERGY BAND STRUCTURE OF POLYNUCLEOTIDES IN	OELAYED ACTION FOAM-IN-PLACE POLYURETHANE AERUSPACE ENVIRONMENT ASD-TOR-62-416 N63-12710 06-19
NUECKEL APPROXIMATION N63-13132 07-07 POLYOCTYL METHACRYLATE	EFFECTS OF MOISTURE ON THE DYNAMIC MECHANICAL PROPERTIES OF AMMONIUM PERCHLORATE-POLYURETHANE
CF SYNTHETIC RESIN	PROPERTIES OF AMMONION PERCHLURATE-POLYDRETHANE PROPELLANTS JPL-TR-32-389 N63-13768 08-26
POLYPHENYL ETHER SYNTHESIS OF HIGH TEMPERATURE ELASTOMERS OF	POLYURETHANE SOLID PROPELLANT FINITE WAVE AXIAL
POLYPHENYLETHER-SILOXANE BLOCK COPOLYMERS WITH REGULATED STRUCTURES N63-16181 13-07	COMBUSTION INSTABILITY CARDE-TN-1459/62 N63-15181 11-26
OXIDATION OF POLYPHENYL ETHERS AND INTERMEDIATES - REACTIONS OF TRITIUM-LABELED POLYPHENYL ETHERS N63-18353 17-07	PULSE TECHNIQUE FOR ASSESSING FINITE WAVE AXIAL COMBUSTION INSTABILITY OF ALUMINIZED AMMONIUM PERCHLORATE-POLYURETHANE SOLID PROPELLANT
HIGH MOLECULAR WEIGHT COPOLYMERS SYNTHESIZED FROM OIHYDROXYDIPHENYL ETHER AND DICHLOROSILANE MONOMERS N63-20955 21-07	N63-15589 12-26 COMBUSTION INSTABILITY OF MITRASOL AND POLY- URETHANE-AMMONIUM PERCHLORATE PROPELLANTS - EFFECT OF ALUMINUM ADDITIVE, BURNING RATE STUDIES
POLYPHENYLETHER-SILOXANE BLOCK COPOLYNERS N63-22844 23-07	N63-15596 12-26
POLYPROPYLENE CF SYNTHETIC RESIN	ANALYSIS OF POLYURETHANE FOAM MOUNTED ON POLARIS MISSILE TO CUSHION EFFECTS OF ENVIRONMENTAL SHOCK N63-16773 14-17
CAYSTALLINITY OF POLYETHYLENE AND POLYPROPYLENE — COMPARISON OF METHODS DMM-TE-50 N63-11556 04-07	SYNTHESIS AND EVALUATION OF POLYURETHANE ELASTONERS
THE STATE OF THE PROPERTY WE WIND TO STATE OF STATE	RIA-63-1242 N63-17532 16-07

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-23 MSE ITY -19

-29

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26

33

19

26

26

26 T 6

7

7

HAWK ROCKET ENGINE - EFFECT MEATHER SEAL FOR DRYING PO		PROBABILITY DISTRIBUTION WITHOUT AROD-2934-2	N63-21695 22-20
PROPELLANT RK-TR-63-15	TOMOTOM MINISTERNATIONS	CONSTRUCTION OF SELF-CONSISTENT-F ORBITAL WAVE FUNCTION AND LCAO-MO	POPULATION
	N63-20318 20-19	ANALYSIS POPULATION DENSITY EFFECT ON SURV	ALTERBE SYSY
LYVINYL ALCOHOL F SYNTHETIC RESIN	FOR OF POYNSSAINFREEDY MULTCULAR DEARS	RATES IN MALE RATS FOLLOWING WHOLI IRRADIATION	E BODY X-RAY
WATER CHI OF THE	TH TRADIATION SEPECTS ON AMPINICATION IN SOLID	22-03/cris###1-E98	NASA-TW-0-165
F SYNTHETIC RESIN POLYVINYL CHLORIDE COATING HANDLING EQUIPMENT TO PREV	S FOR HIGH EXPLOSIVE	TWO SAMPLE SEQUENTIAL RANK TEST S FOR POPULATION TESTING POPULATION INVERSION BETWEEN BOWN	N63-23085 24-20
VISCOELASTIC PROPERTIES OF CHLORIDE - STRESS RELAXATI	PLASTICIZED POLYVINYL ON CURVES, PLASTICIZER	MOLECULAR ELECTRONIC STATES BY TW EQUILIBRIUM - ULTRAVIOLET LASER A AVCO-EVERETT RES. REPT164	O-TEMPERATURE PPLICATION 1941 N63-23343 24-23
CONCENTRATION AND POLYMER ONR-TR-RLT-62		POROSITY POWDER POROSITY EFFECT ON X-RAY I	CF DETENTION
	AL THREE-PROTON DECAY OF	MEASUREMENTS MALLANTION FOR THE MANUAL	M63-16256 1 13-23
COMPATIBILITY OF POLYVINYE WITH NITROGEN TETROXIDE AN NASA-CR-50999		BOLTZHANN EQUATIONS APPLIED TO SE	の P 207 17 17 10 10 10 2 7 10 17
MTRYAGIN PRINCIPLE PONTRYAGIN PRINCIPLE AND E	Merch 2000 65 V 78 y 21 o	K-1580 TAN TANG ANTIGORY TO JOH	CHATTON SOL-28
EVALUATION OF FEEDBACK DES	IGH AND CONTROL SYSTEMS	POROSITY AND BULK DENSITY OF COMP	PETTERASH POSTERM
APPROXIMATE REALIZATION OF USING PONTRYAGIN PRINCIPLE		CELLULAR HETALS - NEW CONCEPT FOR	AA-FA-銀行すっけると
TIME OPTIMAL CONTROL LAW F RENDEZVOUS PROBLEM BY PONT AIAA PAPER-63-361	OR LUNAR ORBITAL	HIGH SPEED FLOW OF FLUIDS THROUGH CAPILLARY ORIFICE FLOW MODEL, PLA INTERACTIONS, COMPUTER PROGRAM	POROUS MEDIA -
POTASSIUM SI GRRYPPERE NOITALUM	PURL BATER SERVICE	ANCE IN WEIGHTON'S CONSTITUTE AT BOM	
	Y-WILCOXON U TEST N63-11699 04-20	POROUS ELECTROLYTE BINDING VEHICL OS- OXYGEN FUEL CELLS	E FOR HYDROGEN- N63-14132 9 09-06
UNEQUAL PROBABILITY SAMPLE ASYMPTOTIC THEORY WITH FIR AROD-2934-3	ING PROCEDURES AND	HEAT TRANSFER IN POROUS MEDIA CON LIQUID AND WASS DIFFUSION MEASURE	
PROBABILITY THEORY - POPUL USING RATIO AND REGRESSION	ATION MEAN ESTIMATION	POWDER POROSITY EFFECT ON X-RAY I MEASUREMENTS	N63-16256 - 13-23
AROD-2934-7	N63-13344 08-20	SURFACE IONIZATION OF CESIUM ON F	OROUS TUNGSTEN,
POPULATION HEAN AROD-2934-8	1PLING METHODS OF	POROUS NATERIAL AND SOLID SURFACE	
COMBINATION OF POPULATION SERIES AMALYSIS TO DEVELOR		MICH-CURRENT-DENSITY CYLINDRICAL TUNGSTEN EMITTER FOR ION THRUSTON	COSTINON COLE
THEORY AROD-2934-9	N63-17385 15-20	ALAA PAPER-63029-63	N63-20434 20-27
OPTIMIZING THE CONFIDENCE DEVIATION OF A NORMAL POPU	INTERVAL OF STANDARD	POROUS SOLIDS WITH HOT SOLVENT SAM-TDR-63-42	N63-20698 21-07
ARL-31, PT. II	N63-17572 16-20	DIFFUSION OF HYDROGEN AND OTHER L	
UNEQUAL PROBABILITY SAMPLES SERIES ASPECTS OF PANEL SERIES POPULATIONS	URVEYS OF FINITE	THROUGH MEMBRANES, POROUS MEDIA, MEDI	ELECTRON-POST:
		PRODUCTION OF POROUS NETAL BODIES	- COMPOSITE
POPULATION INVERSIONS BY I FEASIBILITY OF LASER ACTIV		METAL STRUCTURESURGEDAY OF THE FAR FAR FROM THE FR	M63-21807 A 22-19
CAL-RH-1670-A-1 311240321V		ONE-DIMENSIONAL POROUS ELECTRODE NASA-CR-52185	FLOW MODEL 14-06
LENTICULAR IMPERFECTION IN MICROWAVE WORKERS AND A CO RADC-TDR-63-125	ONTROL POPULATION 19-16	PORPHYRIN NOLECULAR ORBITAL CALCULATIONS AN	D ELECTRONIC
QUALITATIVE REPORT ON LASS POPULATION INVERSION	ERS - STINULATED ENISSION N63-20348 20-25	ARL-63-130 MOTTOM YOUTS OF ERSONE BRENGSTON MOTTOM YOUTS OF ERSONE BRENGSTONERS	N63-17965 12016-23
COMPARISON OF MEANS OF THE	D POPULATIONS WITH	CALCULATION OF AIRCRAFT POSITION ERROR DETERMINED BY AVERAGE QUAD	- ACCIDENTAL NATIC DEVIATION OF
ARL-63-106	N63-20911 21-20	THE ERROR	M63-10632 102-22

SAMPLING OF FINITE POPULATION OF UNEQUAL

3,801

P

RANGE ERRORS OF HEIGHTS & INCLINATIONS AND
COORDINATES OF POINTS ON GEODETIC DATA USING
N63-12283 05-08 STATIC PRESSURE & STAGNATION PRESSURE CALIBRATION DATA FOR DEFINING POSITION ERRORS OF AIRSPEED-ALTITUDE SYSTEMS OF X-15 AIRCRAFT NASA-TH-0-1724 SIGHTING PROBLEMS ASSOCIATED WITH SEXTANT TYPE MEASUREMENT OF STAR POSITION FOR SPACE NAVIGATION NASA-TN-D-1653 N63-14444 10-22 ACCURACY OF MANUAL OPTICAL THEODOLITE SIGHTING OF THE CENTER OF A PLANETARY DISK N63-14446 10-22 POSITION INDICATOR AIRCRAFT INSTRUMENT CE ALTIMETER BEACON CF DETECTION CF DIRECTION FINDER CF FLIGHT INSTRUMENT CF SEXTANT TRACKING OPTIMAL CONTROL OF SELF-ADJOINT SYSTEMS - ANGULAR VELOCITY CONTROL OF TUMBLING SPACECRAFT N63-12842 FLIGHT TESTS OF FLUSH-MOUNTED, TUMBLING-AIRFOIL, CRASH POSITION INDICATOR - RELIABILITY FOR RADIO SIGNAL TRANSMISSION AFTER CRASH IMPACT ASD-TDR-63-46 N63-23427 24-02 POSITION VECTOR
SPACECRAFT POSITION IN EARTH-MOON SPACE FROM OPTICAL MEASUREMENTS NASA-TN-D-1604 N63-13099 07-22 HUMAN PERFORMANCE IN WEIGHTLESS CONDITIONS - SELF-ROTATION TECHNIQUES N63-14896 11-29 EXTENSION PROBLEM FOR POSITIVE-DEFINITE FUNCTIONS ON GROUPS OF LATTICE POINTS AND ON EUCLIDEAN SPACE **POSITRON** CF CHARGED PARTICLE CF ELECTRON CF ELEMENTARY PARTICLE MEASUREMENT OF NEGATRON-POSITRON CONVERSION LNF-62-66 N63-12568 06-15 VACUUM POLARIZATION AND RESONANCE CONTRIBUTIONS OF VIRTUAL VECTOR MESONS IN HIGH ENERGY ELECTRON-POSITRON COLLISIONS ELECTRON SYNCHROTRON, CRYOGENICS, RADIO-FREQUENCY ELECTRONICS, MAGNETISM, COMPUTER, AND ELECTRON AND POSITRON STORAGE RING EXPERIMENTS SPECTRA AND PROBABILITIES OF ETA-MESON DECAY BY ELECTRON-POSITRON DECAY MODE & BY MUON-MUON DECAY MODE - THO-LEPTON SYSTEMS - NUCLEAR PHYSICS NONADIABATIC THEORY OF ELECTRON HYDROGEN SCATTERING APPLIED TO S-WAVE SCATTERING OF POSITRONS BY ATOMIC ENERGY NASA-TN-0-1849 N63-18660 17-23 DESIGN ELEMENTS FOR A 750 MEV STORAGE RING FOR **ELECTRONS AND POSITRONS** M63-19270 18-23 POSITROMS AS TRACERS TO STUDY MOTION OF TRAPPED ELECTROMS IN EARTH MAGNETOSPHERE 10A/HQ-63-1715 N63-20063 20-N63-20063 20-28

ELECTRON-POSITRON MAGNETIC STORAGE RING - DESIGN

AND CONSTRUCTION LNF-63/62

DIRECT ELECTRON-POSITRON PAIR PRODUCTION BY HIGH ENERGY ELECTRONS USING IONIZATION CHAMBER N63-23248 POSITRON ANNIHILATION ELECTRONIC STRUCTURE OF SOLIDS DETERMINED FROM THE ANGULAR CORRELATION OF PHOTONS EMITTED FROM POSITRON ANNIHILATION RADIATION EFFECTS ON INSULATORS - POSITRON ANNIHILATION IN SOLIDS - IONIZATION OF ANTHRACEME CRYSTALS BY X-RAYS MEASURED BY POLARIZATION METHOD POSITRON ANNIHILATION IN CONDENSED MATERIALS PRECISE MEASUREMENTS OF LIFETIMES AND INTENSITIES AS A FUNCTION OF TEMPERATURE N63-21715 22-23 POSITRONIUM
POSITRONIUM LIFETIME IN CONDENSED HYDROGEN N63-10489 THREE-PHOTON DECAY OF POSITRONIUM IS STATE AS TEST
OF CHARGE CONJUGATION INVARIANCE
NYO-10259
N63-14325
10-21 POST-BLAST NUCLEAR RADIATION CF BLAST POST-STALL GYRATION CF STALL, STALLING POSTURE AND GRASPING STRENGTH OF HONKEYS, APES AND ARL-TDR-63-21 N63-19759 19-14 CF ALKALI METAL URANIUM DXIDE-SODIUM POTASSIUM SLURRY FOR REACTOR FUEL ANL-6644 1121 12 14 400441339 0M63-13025 THO PHASE HEAT TRANSFER DATA FOR SODIUM AND POTASSIUM UNDER CONDITIONS OF BOILING AND N63-13958 THERMODYNAMIC & TRANSPORT PROPERTIES OF POTASSIUM FOR USE IN HIGH TEMPERATURE HEAT TRANSFER - LIQUID METAL COOLED REACTOR N63-15005 11-13 POTASSIUM & MERCURY BOILING FOR HIGH TEMPERATURE HEAT TRANSFER -LIQUID METAL COOLED REACTORS N63-15000 POTASSIUM BOILING FOR HIGH TEMPERATURE HEAT TRANSFER - LIQUID METAL COOLED REACTORS & LITHIUM HYDRIDE HANDLING FOR SOLAR HEAT RECEIVER N63-15011 -11-13 HIGH TEMPERATURE LIQUID METAL HEAT TRANSFER -FORCED-CONVECTION SATURATION BOILING OF POTASSIUM AT MEAR ATMOSPHERIC PRESSURE FOR REACTOR COOLING HIGH TEMPERATURE HEAT TRANSFER LIQUID METAL COOLER REACTOR - BOILING POTASSIUM HEAT TRANSFER IN FORCE CONVECTIVE FLOW - LOOP DESIGN AND DEVELOPMENT BNL-6142 N63-15013 11-13 HIGH TEMPERATURE LIQUID METAL HEAT TRANSFER -POTASSIUM-MERCURY AMALGAM MEAT TRANSFER AND TWO-PHASE FLOW M69-15016 11-OSCILLATING CYLINDER VISCOMETER TO MEASURE VISCOSITY OF LIQUID POTASSIUM FROM 70 TO 1150-0EG C BATT-4673-T1 M63-15253 12-18 THERMODYNAMIC AND TRANSPORT PROPERTIES OF N63-15397 14 12-18 POTASSIUM NONTHERMAL IONIZATION FOR MAGNETOHYDRODYNAMIC ENERGY CONVERSION - EXPERIMENTS IN COLD CESIUM DIODES AND MAGNETOHYDRODYNAMIC POTASSIUM VAPOR N63-16416 14-24

STABLE VANADIUM, CALCIUM, AND POTASSIUM ISOTOPES

N63-22925 23-23

ICH 24-23

THE

2-25

ENE

TES 2-23

1-23

TEST

0-23

-14

OR

-18

UID

-11

-13

13

CE

13

13

.

18

4

03-16

LIBSS-3888-17

ULTRAVIOLET ABSORPTION BANDS AT VARIOUS TEMPERATURES - CONCENTRATION OF POTASSIUM 10010E DILUTED IN SINGLE POTASSIUM CHLORIDE CRYSTAN NASA-CR-50402 N63-18399 17-25 PRODUCED IN IRON METEORITES BY COSMIC RAYS
NASA-CR-50176 N63-17134 15-12 NOLECULAR BAND ABSORPTION IN THE VISIBLE SPECTRUM OF POTASSIUM AND SODIUM VAPORS IN HIGH TEMPERATURE ARC AND PLASMA SYSTEM IONIC CONDUCTION OF POTASSIUM CHLORIDE-POTASSIUM BROWIDE MIXED SINGLE CRYSTALS AS FUNCTION OF COMPOSITION AND HEAT TREATMENT OF SAMPLES ARL-63-37 N63-17462 CHEMICAL KINETICS - REACTION OF POTASSIUM NITH METHYL BROWIDE IN CROSSED MOLECULAR BEAMS M63-18875 1418-25 N63-18563 17-07 SPIN LATTICE RELAXATION OF F-CENTERS IN POTASSIUM CHLORIDE LANDAU DAMPING OF ACOUSTIC VIBRATIONS IN PLASMAS -CESIUM AND POTASSIUM PLASMAS PURIFICATION OF STARTING MATERIAL FOR POTASSIUM CHLORIDE SINGLE CRYSTALS, PROBLEMS OF RECONTAMINATION & VERIFICATION OF PURITY N63-18741 THERMOPHYSICAL PROPERTIES OF SODIUM AND POTASSIUM AT HIGH TEMPERATURES
NASA-CR-50737 N63-18997 18-07 N63-18997 18-07 VARIATIONS IN IRRADIATION COLORING PROPERTIES, LUMINESCENCE & LIGHT SCATTERING IN POTASSIUM CHLORIDE CRYSTALS N63-22545 23-19 TRANSPORT THEORY OF FULLY IONIZED POTASSIUM PLASMA - THERMOCONDUCTIVITY, POTENTIAL GRADIENT & STABILITY POTASSIUM COMPOUND
PARAMACNETIC RELAXATION FOR GROUND STATE - KRAME
DOUBLET OF IRON IN DILUTE POTASSIUM FERRICYANIDE
N63-13422 08-MAS-19910 19-24 PHYSICO-THERMAL PROPERTIES OF SODIUM, POTASSIUM, AND SODIUM-POTASSIUM ALLOYS FROM BOILING POINT TO POTASSIUM SUPEROXIDE
POTASSIUM SUPEROXIDE CANISTER EVALUATION FOR
MANNED SPACE VEHICLES - LIFE SUPPORT SYSTEMS
N63-11341 (1) 1 44 103 MATT 140 214 N63-20062 12 20-18 LITHIUM-BOILING POTASSIUM REFRACTORY METAL LOOP FACILITY NASA-CR-51236 N63-21325 21-10 POTASSIUM 40 ASSIUM 40
POTASSIUM-40 ABUNDANCE AS INDICATOR OF NATURAL BACKGROUND RADIOACTIVITY
NOS-12066 0 REACTIONS OF POLYMERS CONTAINING SILICON-NITROGEN BONDS WITH POTASSIUM NASA-CR-51790 1-1-02 - YOR N63-22579 23-07 POTENTIAL MALANCADE BERRENCE VOLUM VANGE CONTACT POTENTIAL ELECTRIC POTENTIAL ELECTROLYTE MATRIX COMBINATIONS FOR MERCURY-POTASSIUM FUEL CELL GEOPOTENTIAL
GRAVITATIONAL POTENTIAL DATABASEA SONCEOHER
IONIZATION POTENTIAL
STIMIT-SEM NASA-CR-51566 N63-22584 23-26 EXTRACELLULAR POTASSIUM REGULATION IN HYPOTHERMIA HORSE POTENTIAL THREST SHITZHERS AND THE STATE OF THE STA SAM-TOR-63-14 N63-22664 23-16 ALVANDROGRETTO MEKAGRERITS EVALUATION OF SODIUM-POTASSIUM AND ORGANICS AS FLUIDS IN HEAT REJECTION LOOP OF SNAP-0 SYSTEM N63-23629 24-19 LARGE SIGNAL TRAVELING WAVE TUBES & AMPLIFIERS, DEPRESSED POTENTIAL COLLECTORS, ELECTRON BEAM GUNS KLYSTRONS, LOW NOISE CRESTATRONS & MAGNETRONS RADC-TOR-63-8 POTASSIUM ALLOY VAPOR PRESSURE OF ALKALI METALS - CESIUM, RUBIDIUM AND SODIUM-POTASSIUM ALLOYS FOR USE IN HIGH TEMPERATURE HEAT TRANSFER - LIQUID METAL COOLING RELATIONSHIP BETWEEN ATMOSPHERIC ENTROPY AND AVAILABLE POTENTIAL ENERGY — ATMOSPHERIC M63-14918 11-21 IRRADIATION OF ZIRCALOY-2 CLAD URANIUM RODS IN SODIUM-POTASSIUM-FILLED CAPSULES - FUEL ELEMENTS HN-67072 POTENTIAL ENERGY LEVELS FOR ELECTRONIC STRUCTURES
OF AMMONIA N63-17779 L6-23 OF AMMONTA PHYSICO-THERMAL PROPERTIES OF SODIUM, POTASSIUM, AND SODIUM-POTASSIUM ALLOYS FROM BOILING POINT TO OF CHLORINE DIOXIDE AND MOST 1700 16-23 1300-DEG C KINETIC AND POTENTIAL ENERGY OF STRATOSPHERE -NUMERICAL APPROXIMATION OF INTEGRAL EQUATIONS 16-21 EUR-357.D N63-20062 20-18 POTASSIUM CHLORIDE PHOTOCHEMICAL REACTIONS IN ALKALI HALIDES - GAS EVOLUTION - POTASSIUM CHLORIDE AND SILVER CHLORIDE NODES OF RELEASE OF AVAILABLE POTENTIAL ENERGY IN THE ATMOSPHERE N83-19564 19-21 N63-10593 STATISTICS ON THE MODES OF RELEASE OF AVAILABLE ZONE-REFINING OF POTASSIUM CHLORIDES N63-12057 05-19 TIME-RESPONSE OF TRANSMISSION-TYPE DYNODE USING PERTURBATION THEORY APPLIED TO MOLECULAR QUANTUM MECHANICS - CALCULATION OF INTERMOLECULAR FORCES & POTENTIAL EMERGY SURFACES IN UPPER ATMOSPHERE NASA-CR-50787 N63-19674 19-07 POTASSIUM CHLORIDE FOR HIGH SPEED COUNTING N63-13592 08-23 DIFFUSION OF LEAD-IONS IN SINGLE CRYSTAL POTASSIUM CHLORIDE TOTAL POTENTIAL-ENERGY BUDGET OF THE STAATOSPHERE OVER NORTH AMERICA DURING THE WARNING OF 1957 AFCRL-83-689: 121-12 ULTRAVIOLET ABSORPTION SPECTRUM OF POTASSIUM CHLORIDE/POTASSIUM BROWIDE SINGLE CRYSTALS AND THIN LAYERS NASA-CR-403 N63-18063 16

A-TTT

OPTICAL ABSORPTION BAND SHAPES OF IONIC CRYSTALS - ALKALI HALIDES AND POTASSIUM CHLORIDE NASA-CR-50405

POTENTIAL FLOW
ABELIAN FUNCTION AND AERODYWAMIC APPLICATIONS POTENTIAL FLOW AND SWEEPBACK FIN, SLENDER BODIES,
COMPRESSOR BLADE-TURBINE BUCKET COUPLING

N63-13528 3 00-11

STRUCTURES

CAAR
OILFECT STANDARD STANDARD

FORCE ON PROLATE SPHEROID IN AXISYMMETRIC POTENTIAL FLOW - BODY OF REVOLUTION N63-13600		POWDER METAL AND SILICOM-CARBIDE BASE JPRS-16854 N63-	HATERIALS -11521 03-18
COMPRESSIBLE POTENTIAL FLOW THROUGH THERMAL TURBINE - NEW METHODS OF FLOW CALCULATION	ETTEN BE	SOLID PROPELLANTS USING TWO POWDERS H DIFFERENT BURNING RATES IN THE SAME G N63-	
	11-11	FISSION SINTERING OF BORIDE POWDERS B	江东东部 74400
CALCULATION OF TWO-DIMENSIONAL INCOMPRESSIBLE POTENTIAL FLOW AROUND SEVERAL PROFILES IN SE		RADIATION GEAP-3743 M63-	CHATHER PROPERTY
FLOW FIELD WHICH EXERT MUTUAL INTERFERENCE N63-15455 EFFECT OF CHANGE IN AXIAL VELOCITY ON POTEN	12-11	DEVELOPMENT OF CATALYST SCREEN ELECTR TO TEST POWDERED ELECTRODE MATERIALS HYDROGARBON FUEL CELLS - METHAME SERI	FOR THE STATE OF T
FLOW THROUGH CASCADE OF AEROFOILS - TURBOMAN AND SOLID WALL WIND TUNNELS	CHINES	N63-	14134 09-06
ARC-CP-619 10 40 101142141414 3 4 N63-16166	13-03	POWDER POROSITY EFFECT ON X-RAY INTEN	SITY
MINIGIES IN CHICKDE	RAV TO	MRL-114/R/ N63-	16256 13-23
ARC-CP-610 HT ARESTERN THE N63-22208		FINE POWDER THEORY FOR DESCRIBING LUN NASA-CR-50117 N63-	AR SURFACE 16731 14-20
POTENTIAL GRADIENT OSCILLATING ELECTRON PLASMA SOURCE - POTENTS GRADIENTS ARL-62-471 N63-13963		LUMAR SURFACE HIGH FREQUENCY SPUTTERI RELATED TO ION BOMBARDMENT DATA FOR P	NG YIELD OWDERED ROCK
ARL-62-471 N63-13963	09-24	PERSONALISTON ALLOYS FROM ROLLING MODERN TO	17204 15-07
TRANSPORT THEORY OF FULLY IONIZED POTASSIUM PLASMA - THERMOCONDUCTIVITY, POTENTIAL GRADI STABILITY			
MATT-204 N63-19910	19-24	OWDER METALLURGY	PACILITY
POTENTIAL PROBLEM TREATMENT OF PERIODIC POTENTIAL PROBLEMS ANL-6647 N63-11752		THERMODYNAMIC PROPERTIES OF BINETALLI	C POWDERS 10197 01-26
DISCRETE POTENTIAL AND BOUNDARY VALUE PROBLE LAPLACE DIFFERENCE EQUATIONS	MS FOR	POWDER METALLURGY - SOVIET STUDIES JPRS-16269 N63-	10579 02-18
MRC-371 M63-19320	18-20	THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PARTY	T 20 (134 E) TO
POTENTIOMETER METHODS FOR CALIBRATION OF POTENTIOMETER			ALLOYS, 10623 02-18
NBS-TN-172 N63-14842	11-23	PLASMA THERMOCOUPLE, RADIATION SHIELD	ING. AND
SENSITIVE ALTERNATING CURRENT POTENTIOMETER GALVANOMAGNETIC MEASUREMENTS		POWDER METALLURGY	10869 02-15
C-15 N63-16182		PLASMA-ARC SPRAYED RADIATION-COOLED T	
DESIGN OF POTENTIOMETER FOR ELECTROCHEMICAL RESEARCH	Y)/OV	FOR JUST TO STAR TO STATE WAY THE	10965 02-17
EFFECT OF CYSTEAMINE PROTECTION ON MICE -		THEORY OF COMPACTING METAL POWDERS - METALLURGY, ELASTICITY, SINTERING JPRS-16573 N63-	10983 02-18
POTENTIONETER DETERMINATION N63-23294	24-16	EFFECT OF ATMOSPHERIC HUMIDITY ON THE	PUTANGUNET
POTTING COMPOUND EPOXY POTTING FOR HIGH VOLTAGE, HIGH AMPERAG	E	METAL POWDER LAMS-2773 N63-	11044 03-16
CIRCUITRY N63-13414	08-17	SINTERING NIOBIUM POWDER	STOTA-INI
INTERNAL STRESSES DEVELOPED IN EPOXY RESIN P	OTTING	JPRS-16841 N63-	11338 03-18
COMPOUND DURING LONG TERM STORAGE - STRAIN G TESTS AND INSTRUMENTATION	AUGE	TITANIUM POWDER METALLURGY	11872 04-18
HETHODS, EQUIPMENT AND HATERIALS FOR POTTING	KOW	PRODUCTION AND PROPERTIES OF SEMIFINE JPRS-17296 N63-	SHED TANTALUM 12134 05-18
ELECTRICAL CONNECTORS OF CABLE ASSEMBLIES WI EPOXY RESINS NASA-TM-X-50375 N63-21651		YIELD POINT RETURN AND HODULUS DEFECT ARC-CAST AND POWDER-METALLURGICAL MOL	
APPENDING FOR A STORY OF THE PROPERTY OF THE P			12309 05-10
USE OF COMMONLY USED SATELLITE POTTING COMPO SEALANTS AND RESINS		ZONE REFINING OF CEMENTED TUNGSTEN-BA	SE ALLOYS -
MASA-TH-X-50354 N63-22052	22-19	PLASTIC DEFORMATION THEORY WAL-TR-372/32-3-T1	12376 06-18
ADMESIVES, PROTECTIVE COATINGS, POTTING COMP FOR ELECTRONIC PACKAGING NASA-CR-51587 N63-23042	196, 65	PROCESSING EFFECTS ON THE STRENGTH AN STRUCTURE OF CERANICS MADE FROM PRESS	
POMDER AN PLICATED FOR A 190 MIN ATTOMET PARTY	THE R.	ASD-TDR-62-700 M63-	12406 06-19
BERYLLIUM RESEARCH - ELECTRON MICROSCOPY, PO RECRYSTALLIZATION, AND IMPURITIES NH1-9522 N63-10311	THO	THERMOCONDUCTIVITY OF IRRADIATED & NO SINTERED & NONSINTERED URANIUM OXIDE	NIRRADIATED,
KINETICS OF HIGH TEMPERATURE REACTION BETWEEN		CRYSTALLINE STRUCTURE HW-69945 N6	
MAGNESIUM POWDER AND DXYGEN PA-TR-3013 M63-10425	01-26	IMPROVED MOLYBDENUM SHEET BY POMDER MI	ETALLURGY
SINTERED STRUCTURES ON PLASMA SPRAYED SINTERED STRUCTURES		PRODUCTION OF PREALLOYED MOLYBDENUM-T	CRYSTALS -

-18

-24

-23 ME -06

23 29 K

19

24

18

15

8

.

.

E

REAL-TIME ANALYSIS OF RANDOM VIBRATION POWER DENSITY SPECTRA N63-16094 13-15
TABLE INTEGRALS INVOLVING POWERS, EXPONENTIALS, LOGARITHMS AND THE EXPONENTIAL INTEGRAL MASA-CR-51319 N63-22141 22-20
SUPERCONDUCTING COIL ENERGY STORAGE FOR HIGH PULSED POWER APPLICATIONS N63-22205 29-06
HIGH POWER SHORT DURATION MAGNEYOHYDRODYNAMIC POWERPLANTS 23-06
EXPLOSIVE MAGNETOHYDRODYNAMIC GENERATORS FOR ULTRAHIGH POWER PULSES N63-22292 23-24
POWER SCATTERED FROM DENSITY FLUCTUATIONS IN PLASMA - INCOHERENT SCATTERING OF RADIO NAVES IN IONOSPHERE
POWER CONVERSION
SNAP-2 POWER CONVERSION SYSTEM N63-10588 02-06
FEASIBILITY OF A THIONINE PHOTOGALVANIC POMER GENERATING SYSTEM
ASD-TDR-62-373 N63-10744 02-06
LOW VOLTAGE DC TO DC COMVERSION N63-14171 09-06
ELECTRIC PROPULSION FOR SPACECRAFT POWER GENERATION, CONVERSION, AND TRANSMISSION DESIGN DATA N63-16219 13-06
LIQUID METAL FLUIDS AS HYDRODYNAMIC BEARING LUBRICANTS IN SPACECRAFT POWER CONVERSION SYSTEMS N63-17853 16-17
MIOBUM BASE ALLOY AS ALKALI METAL CONTAINMENT MATERIAL FOR NUCLEAR TURBOELECTRIC SPACE POWER SYSTEMS
MASA-CR-50339 N43-18397 17-18 HOURLY WIND SPEEDS AT BOMBAY - WIND POWER
UTILIZATION NAL-TH-HP-19-62 N63-20949 21-21
SUNFLOWER POWER CONVERSION - SOLAR COLLECTOR, POWER CONVERSION, SPEED CONTROL, TURBO-ALTERNATOR, CONDENSER-SUBCOOLER, LITHIUM HYDRIDE CONTAINMENT
ER-4925 N63-21226 21-06
GAINS IN PRESSURE, VOLUME FLOW AND POWER OF PROPORTIONAL FLUID AMPLIFIER N63-13401 08-11
CHARACTERISTICS WHICH HAVE SIGNIFICANT EFFECT ON
TRANSITION PERFORMANCE OF V/STOL AIRCRAFT - POWER EFFICIENCY, VELOCITY PROFILE, DESIGN, WING PROFILE N63-14692 10-04
EFFECT OF GROUND PROXIMITY, WING-STALL PHENOMENA, PITCHING MOMENTS, AND POWER REQUIREMENTS ON VTOL AIRCRAFT NO3-14694 10-04
SOLAR CELL POWER SUPPLY IN SPACE - OUTPUT MEASUREMENTS & POWER EFFICIENCY ASO-TOR-62-882 N63-16269 13-15
MAGNETOHYDROGYNAMIC MACHINE SIZE - EFFECT ON N63-17057 15-24
DIVISION OF ENGINE POWER BETWEEN LIFT FAN AND JET HOZZLE TCREC+TR-62-80 19-27
STELLARATOR PARTICLE CONFINEMENT AND POWER BALANCE
POWER GAIN BROADBAND VARACTOR PARAMETRIC AMPLIFIES -
TRANSDUCER POWER GAIN, SINGLE & MULTIPLE VARACTOR
PIBRRI-109-62 N63-18252 N7-09 POWER GENERATOR

AGITATIONAL PHENDHENA ON POWER SYSTEMS -	2-3838	GEAP-4222 NO MAY WELL TO NO. NO. 1	19382 18-15
LIGHTNING SURGES AND OVERVOLTAGE N63-119	05 04-21	POWER PLANT CF HEAT ENGINE	-11 27 - 140 - 11
SELF-EXCITING SYNCHRONOUS GENERATORS JPRS-17252 N63-1201	16 05-06	MAGNETOHYDRODYNAMIC-STEAM POWERPLANTS OF TEMPERATURE OR GENERATOR LENGTH - (CESTUM
MAGNETOHYDRODYNAMIC POWER GENERATOR		SEEDING N63-	11295 03-27
MIT-29-P N63-1230	02 05-27	REACTOR DEVELOPMENT PROGRAM - POWERPLA PHYSICS, AND SAFETY	INTS, FUELS,
MAGNETOHYDRODYNAMIC PROPULSION AND POWER GENERATION			11492 03-23
R63SD5 N63~1266	82 06-24	THERMAL POWERPLANTS FOR UNDERWATER PRI NOTS-TP-2076 N63-	DPULSION 11886 04-27
MAGNETOHYDRODYNAMIC POWER GENERATORS R62SD990 N63-1280		UPGRADING ANALOG COMPUTER ANALYSIS OF	SAVANNAH
COMPOUNDS AND ALLOYS OF MAGNESIUM, TIN, C	COPPER,	NUCLEAR SHIP REACTOR POWERPLANT BAW-1260 N63-	12457 06-20
LEAD AND GERMANIUM AS SEMICONDUCTORS IN THERMOELECTRIC POWER GENERATION TCREC-TR-62-112 N63-1350	08-25	RESEARCH PROBLEMS CONCERNING AIRCRAFT PERFORMANCE, FIRE, TRAFFIC CONTROL, AM	ND COLLISION
THERMIONIC POWER GENERATORS - EFFICIENCY		n t - Little State at sales at the sales at	13184 07-01
CONVERTING HEAT TO ELECTRICITY BY THERMIC DIODES N63-1423		ECONOMICAL DESIGN AND OPERATION OF MAGNETOHYDRODYNAMIC POWER GENERATORS N63-1	14318 10-24
HIGH-POWER MILLIMETER-WAVE GENERATOR	MCZAWO	0.1 = CV() 0.00 (= 0.000)	110 E 1 S 1 S 1 S 1
N63-1447		MAGNETOHYDRODYNAMIC POWERPLANTS - CLOS SYSTEM	
THERMIONIC GENERATOR UTILIZING SOLAR ENER APPLICABLE TO SPACE POWER SYSTEM	RGY	AD-284753 N63-1	17055 15-24
ASD-TDR-62-899 N63-1606	13-06	THERMOPHYSICAL PROPERTIES OF ALKALI ME WORKING FLUIDS, COOLING SYSTEMS AND LO	UBRICATION IN
ELECTRIC PROPULSION FOR SPACECRAFT POWER GENERATION, CONVERSION, AND TRANSMISSION DATA N63-1621	DESIGN	CONSTRUCTION OF 40-HW-E PROTOTYPE POWE	
MAGNETOHYDRODYNAMIC POWER GENERATORS - EL		EMPLOYING HIGH TEMPERATURE GAS COOLED GA-3396 N63-	19296 18-17
MAGNETOHYDRODYNAMIC POWER GENERATION - PO	WER	POWERPLANT AUTOPRECESSION ON TURBOPROI TRANSPORT AIRCRAFT NASA-TN-0-1806 N63-1	ELLER
SOURCE BIBLIOGRAPHY AND-110 N63-1795	MENDIN	NASA-TN-D-1806 N63-1	19604 19-03
MAGNETOHYDRODYNAHIC POWER GENERATION	2-AIAA	HYDRAULIC POWERPLANT SYSTEM ANALYSIS N63-	20446 20-11
PWA-2170 N63-2124 MAGNETOHYDRODYNAMIC POWER GENERATORS	5 21-24	POWER SYSTEMS AND POWERPLANT SELECTION	FOR SPACE
N63-2128	7 21-24	YESHERACKE AND COMPANION OF THE PERSONS	CONTRACTOR S
CLOSED CYCLE MAGNETOPLASMADYNAMIC ELECTRI GENERATION WITH NOMEQUILIBRIUM IONIZATION	063000-23	HYDROGEN-OXYGEN FUEL CELL POWERPLANT - FABRICATION, TEST RESULTS NASA-CR-51544 N63-2	MANESKAN D
MND-2939 N63-2181	500-77	POWER REACTOR OT MOTTAGILINGS HITM BETWEEN	
SPACECRAFT ELECTRIC GENERATING AND PROPUL SYSTEM INTEGRATION ASD-TOR-63-428, PT. II N63-2244	POMEN EFF	CF LOS ALAMOS MOLTEN PLUTONIUM REACTOR A SHIPMENT OF IRRADIATED FUEL FROM EUROF	/LAMPRE/
SPACECRAFT ELECTRIC GENERATING AND PROPUL	SION	REACTORS TO THE UNITED STATES EUR-112.E,F, VOL. 1 N63-1	11767 04-26
SYSTEM INTEGRATION ASD-TDR-63-428, PT. I N63-2244	6 23-27	DEUTERIUM OXIDE MODERATED POWER REACTO	
RADIO-FREQUENCY POWER GENERATOR DESIGNED HEATING SUPERSONIC GAS FLOWS	FOR	PROCESSING OF POWER REACTOR FUELS	1272
USCEC-65-54 N63-2310	0 24-09	DP-811 N63-1	11818 04-23
RADIOISOTOPE THERMOELECTRIC POWER GENERAT HEAT TRANSFER, POWER-TIME REQUIREMENTS, A RADIOISOTOPES		PREDICTION AND CONTROL OF NUCLEAR REAC LIFETIME AND BURNUP OF NUCLEAR FUELS I REACTORS	
D-709582 N63-2336	9 24-23	UCRL-10614 N63-1	15229 11-26
TESTING MATERIALS FOR POWER GENERATOR MOD N63-2350		NUMERICAL ANALYSIS OF EFFECT OF NUCLE/ PLANT CHARACTERISTICS ON REACTOR CORE DISTRIBUTION - REACTOR TECHNOLOGY	
OWER INVERTER	WW 05	DISTRIBUTION - REACTOR TECHNOLOGY M63-1	15262 12-23
IMPROVED RELIABILITY, WEIGHT AND EFFICIEN SILICON CONTROLLED RECTIFIER - SHUNT COMM WITH ZENER BLOCKING, SCR STEERING, POWER N63-1416	TAPS	ANALYSIS OF SPACE-TIME DYNAMICS OF POU DISTRIBUTION IN NUCLEAR POWER REACTOR KAPL-2217 N63-1	14001-320-00 14001-320-00
ONER-LIMITED VEHICLE PAYLOAD CAPABILITIES OF VEHICLE CONTAININ THRUST POWER-LIMITED PROPULSION SYSTEM FO		ARMY BOILING WATER POWER REACTOR /PL- TRANSPORTABLE MODULE USING AMBIENT COL TUNNEL & OTHER COLD CLIMATE INSTALLATI IOO-19021, VOL. I	DLING - SNOW
MASA-CR-51014 N63-2190	317888	NUCLEAR POWER REACTORS FOR UNDERGROUND	
THERMOCOUPLE-TYPE DETECTORS FOR IN-CORE P	OWER	INSTALLATIONS REQUIRING LONG TERM CLOS ISOLATEO OPERATION EM-1110-345-950 N63-1	SEO OR
	of owners of the		

8-15

ON

3-27

LS, 3-23

-27

-20

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ON

-24

-24

-17

17

03

26

6

REACTOR TECHNOLOGY & SAFETY - LIQUID METAL COQLED, HALLAM POWER, ORGANIC MODERATED AND POWER REACTORS NAA-SR-7400 N63-18010 16-23 ASYMPTOTIC POWER SERIES EXPANSIONS OF INTEGRALS INVOLVING LARGE SEPARATION OF ALL SINGULARITIES FROM THE SADDLE POINT POWER SERIES EXPANSION OF INTEGRALS WITH N63-11450 03-20 MRC-348 GENERALIZATION OF TAUBERIAN THEOREMS HRC-324 POWER SERIES WHOSE SUMS HAVE FEW ZEROES IN ANGLE -FUNCTIONS AND COEFFICIENTS BY HARMONIC ANALYSIS N63-15910 13-20 POWER SERIES - ZEROS OF POLYNOMIALS N63-16594 14-20 EXACT SOLUTION OF AXISYMMETRICAL BENDING EQUATIONS FOR THIN, SPHERICAL SHELLS EXPRESSED AS POWER NASA-CR-51259 N63-21730 22-23 POWER SOURCES FOR MOBILE ENERGY DEPOT N63-11685 04-10 ELECTRIC POWER SOURCES - POWER CONVERSION, ELECTRONIC COMPONENTS, FUEL CELLS AND BATTERIES N63-14123 09 09-06 RADIO FREQUENCY INTERFERENCE FROM HIGH POWER SOURCES N63-21677 22-09 RADC-TDR-63-287 MER SPECTRUM
PROPERTIES OF PHOTODETECTOR - SPECTRAL AND
FREQUENCY RESPONSE, AND NOISE POWER SPECTRUM
NOIC-558
N63-12966 07-15 CALCULATING FOURIER TRANSFORMS OF WAVEFORMS 07-08 SUPPRESSION OF JET NOISE FROM COAXIAL TURBOFANS, NOZZLES AND EJECTORS WITH EMPHASIS ON THE NEAR FIFED ASD-TDR-62-578 POWER SPECTRUM EXPRESSION FOR LINEAR MIXER OUTPUT FOR CASES OF ONE OR BOTH CONCERNED SIGNALS BEING FREQUENCY-MODULATED BY GAUSSIAN NOISE N63-14096 LOW FREQUENCY POWER SPECTRUM OF COSMIC-RAY VARIATIONS DURING IGY NASA-TN-D-1684 N63-14426 10-28 REACTOR POWER SPECTRUM ANALYZER FOR USE WITH RANDOM NEUTRON FLUX LEVEL SIGNALS HN-74783 N63-15559 12-09 TECHNIQUE FOR DIGITALLY GENERATING RANDOM TIME HISTORIES HAVING ARBITRARILY SHAPED POWER SPECTRA N63-16730 14-20 POWER SPECTRA OF TIME SERIES FOR ESTIMATING NOISE SPECTRA N63-17449 15-08 SAD-110 POWER SPECTRAL DENSITY TECHNIQUE APPLICABLE FOR STAUCTURAL DESIGN CRITERIA ASRHDS-TM-62-4 16-34 HASTILLOZDE H. N63-17670 ... 16-34 SYSTEM FOR AUTOMATIC COLLECTION AND PROCESSING OF GEOMAGNETIC DATA - CALCULATION OF POMER SPECTRUM AFCRL-63-635 N63-17720 16-15

MEASUREMENTS OF PRESSURE SPACE-TIME COVARIANCE IN NEAR FIELD OF SEVERAL SUBSONIC JETS - MEAN FLOW DATA, TURBULENCE LEVELS AND POWER SPECTRA NASA-CR-50505 N63-10254 17-11

PROCESS OF STOCHASTIC DELAY - EFFECT ON POWER

SPECTRA - CORRELATION FUNCTIONS OF RADAR AND SONAR SYSTEMS N63-19107 18-08 ANALOG DATA REDUCTION OF STOCHASTIC DATA - POWER SPECTRA, CROSS POWER SPECTRA, E RANDOM SIGNALS NER-TH-V-1895 21-20 POWER SPECTRA OF VERTICAL COMPONENT OF ATMOSPHERIC TURBULENCE OBTAINED FROM CONCURRENT MEASUREMENTS ON AIRCRAFT AND FIXED POINTS N63-22212 23-04 DIGITAL TECHNIQUE FOR MEASUREMENT OF AUTOCORRELATION FUNCTION & POWER SPECTRUM OF GAUSSIAN RANDOM SIGNALS MIT-TR-412 MATCHA MARCHE NO HOLD N63-22274 NG 23-05 ANT 19-0001-203 POWER SUPPLY SA AUXILIARY POWER SUPPLY
FEASIBILITY OF A THIONINE PHOTOGALVANIC POWER
GENERATING SYSTEM
ASD-TOR-62-373
N63-10744 POWER SUPPLY FOR ESDNE STANDARD PLUG-IN SYSTEM RADIO COMMANO CONTROL EQUIPMENT CATALOG -RECEIVERS, DECODERS, AND POWER SUPPLY - VOL III IRIG-103-59 M63-14013 09-08 POWER SYSTEMS - MICROWAVE CIRCUITS, FERRITE PHASE SHIFTER, SHOCK TUBES, ELECTROLUMINESENCE AND METHYLISOCYANATES N63-14104 09-01 TRANSIENT VOLTAGE AND CURRENT CALCULATIONS IN POWER SYSTEMS - PART II, AN APPROXIMATE N63-14105 09-23 WILLIAM THE SOLAR POWER SUPPLY ORIENTATION SYSTEM N63-14147 09-06 INCREASING EFFICIENCY AND MINIMIZING WEIGHT OF AC-DC POWER CONVERTERS OVERLOAD PROTECTION IN SOLID STATE POWER SUPPLY N63-14170 09-06 ELECTRICAL POWER AND ENVIRONMENTAL CONTROL FOR TWO-MAN LUNAR LANDING VEHICLE MICLE N63-14349 1010-29 CYBERNETICS IN PROBLEMS OF POWER SYSTEM CONTROL SUNDER ENERGENCY CONDITIONS
JPRS-20835 N63-20637 20-0 CONDUCTION-COOLED REACTOR POWER SUPPLY FOR SPACE ANL-6694 N63-21032 21-ANALOG SIMULATION OF SATELLITE POWER SYSTEMS -SYSTEM PROTECTION NASA-CR-50940 N63-21072 2 NA3-21072 21-06 INCREASING THE STABILITY OF SERIES TUBE-REGULATED DC POWER SUPPLY EMPLOYING CASCODE SHUNT AMPLIFIER ARL/1-62 N63-21256 21-09 INVESTIGATION OF CONDENSERS APPLICABLE TO SPACE POWER SUPPLY NASA-CR-51397 N63-22138 32-04 N63-22138 22-06 WIND SPEEDS MEASUREMENT AND UTILIZATION OF WIND PRESSURE FOR POWER TN-WP-21-63 N63-22523 23-NAS-22523 23-21 ENGINEERING PROBLEMS IN SCIENTIFIC SATELLITES ELECTRONIC APPARATUS FOR ATTITUDE CONTROL & POMER SUPPLY N63-23413 24-32 POWER SYSTEM

S SOLAR POWER SYSTEM
S THIONINE POWER SYSTEM

POWER TRANSMISSION
ANALYSIS OF POWER OUTPUT VERSUS FREQUENCY OF
DOPPLER LINE SHAPE - OPICALLY PUMPED AND GASEOUS
LASERS AND EFFICIENCY OF RUBY OSCILLATORS
TRG-134-QRT-3 N63-14545 10-25

ELECTRIC PROPULSION FOR SPACECRAFT POWER
GENERATION, CONVERSION, AND TRANSMISSION DESIGN

ELECTROSTATIC PRECIPITATOR FOR AEROSOL PARTICLE SAMPLING
LF-7 N63-21378 22

E C R

CF V -12

SA SA CF

PRE

FRE 117

PRE

PRO 46

PRI

-

81

22-07

-21 PREC

DATA N63-16219 13-06	PLATES 04-23
DYNAMIC BEHAVIOR OF VTOL & STOL POWER TRANSMISSION SHAFTS OPERATING AT HYPERCRITICAL SPEEDS - SHAFT DESIGN - STRUCTURAL DYNAMICS N63-16610 14-34	RAINDROP-SIZE DISTRIBUTIONS AND VARIATION CAUSED BY FALLING DISTANCE - SPECTROMETRIC ANALYSIS AFCRL-62-1091 N63-12289 05-21
LUBRICATING OIL FOR TURBOSHAFT ENGINES, HELICOPTER TRANSMISSIONS AND TURBOPROP ENGINES N63-17847 16-17	PRECIPITATE CLUSTERING IN BINARY ALLOYS - PARTICLE SIZE RELATED TO AGING TIME IN QUENCHED ALLOYS N63-12616 06-18
SOLID LUBRICANT - FRICTION REDUCTION UNDER HIGH VACUUM - SEALING OF REMOVABLE HATCHES - POWER TRANSMISSION THROUGH PRESSURE BARRIER NASA-TH-X-50141 N63-18484 17-25	ELECTRON PRECIPITATION IN NORTHERN AND SOUTHERN AURORAL ZONES AFOSR-420 N63-13115 .07-12
POWER TRANSMISSION BY THERMAL RADIANT ENERGY EOS-3000-FINAL N63-19747 19-13	ATMOSPHERIC MECHANICS - PRECIPITATION AND HOISTURE FLUX, LARGE-SCALE SPECTRA, MEAN WIND STABILITY, SHEAR FLOW, AND QUASI-LAGRANGIAN FLOW COORDINATES AFCRL-63-209 N63-13286 07-12
ANNOTATED BIBLIOGRAPHY ON HYDROKINETIC POWER TRANSHISSION, FLUID COUPLINGS, AND TORQUE CONVERTERS BIB-4 N63-20050 19-17	RADAR PRECIPITATION ECHO AND SATELLITE CLOUD OBSERVATIONS OF MARITIME CYCLONE N63-13546 08-21
ASTRONOMIC CONTRACTOR OF THE PROPERTY AND A STREET ASTRONOMIC ASTR	1 - 0 1 - 0
DESIGN TECHNOLOGY FOR CENTRIFUGAL PUMPS FOR FLIGHT VEHICLE POWER TRANSMISSION SYSTEMS AAC-4434 N63-20670 20-17	CORRELATION OF TIROS I CLOUD OBSERVATIONS WITH SYNOPTIC SCALE RADAR OBSERVATIONS OF PRECIPITATION AFCRL-63-223 N63-13560 08-21
HIGH-SPEED SHAFTING FOR POWER TRANSMISSION IN STOL AND VTOL AIRCRAFT N63-21840 22-04	SYNOPTIC METEOROLOGY - RADAR COMPOSITES, ECHO CLASSIFICATION SCHEME FOR CYCLONES, PRECIPITATION, CLOUD VISIBILITY, TURBULENCE AND ICING
DYNAMIC TORSIONAL PROBLEMS IN VTOL DRIVE TRAINS WITH UNIVERSAL JOINTS N63-21841 22-04	AFCRL-63-22 N63-13818 09-21
POWER RADIATION FROM ALTERNATING CURRENT ARC - TIME AVERAGE AND TIME VARYING MEASUREMENT	CHEMICAL AMALYSES OF GLACIER ICE & TROPOSPHERIC MASHOUT TO DETERMINE CHEMICAL TRACE CONCENTRATION AFCRL-63-404, PT. 1811 N63-14540 10-12
N63-23485 24-13	TROPOSPHERIC WASHOUT - CONCENTRATION OF CHEMICAL
PRANOTL-MEYER EXPANSION MATCHING CONDITIONS FOR THE MODIFIED NEWTONIAN,	TRACES PRECIPITATION AFCRL-63-404 N63-14542 10-12
PRANDIL-MEYER EXPANSION AND PRESSURE ESTIMATION FOR HYPERSONIC FLOW OVER BLUNT BODIES RM-205 N63-11314 03-03	ALPHA PHASE PRECIPITATE OF HEAT-TREATED B120 VCA TITANIUM ALLOY DURING MELTING
PRANDTL-MEYER FLOW OF PURE, MONATOMIC GAS,	ASO-TOR-62-534 N63-16045 13-18
INCLUDING IONIZATION AND RECOMBINATION EFFECTS NASA-CR-51556 N63-21847 22-11	ENERGETIC ELECTRON PRECIPITATION FROM GEOMAGNETIC FIELD DURING MAGNETIC STORM CR-52 N63-16689 14-12
PRANOTL EQUATION CF DIFFERENTIAL EQUATION	QUANTITATIVE SPECTROCHEMICAL ANALYSIS OF METALLIC
PRASEODYNIUM	SOLUTIONS - USE OF CARRIER-PRECIPITATION AND FILTER ELECTRODE
ALLOYS OF RARE EARTH METALS - VAPOR PRESSURE, THERMODYNAMICS, METALLURGY, AND X-RAY DIFFRACTION	BM-RI-6249 N63-17714 16-07
OF PRASEODYMIUM, NEODYMIUM, AND SAMARIUM ARL-63-15 N63-15549 12-18	DISTRIBUTION AND DURATION OF PRECIPITATION IN WESTERN AFRICA - METEOROLOGICAL DATA ANALYSIS N63-17755 16-21
COVALENCY EFFECTS IN ABSORPTION SPECTRA OF PR 3-PLUS AND ND 3-PLUS IN LANTHANUM TRICHLORIDE AND LANTHANUM TRIBOMIDE	MEASUREMENT RANGE OF METEOROLOGICAL INSTRUMENTS -
AROD-2099-12 N63-16852 14-25	HUMIDITY, PRECIPITATION, TEMPERATURE AFCRL-62-825 N63-18076 16-15
PREAMPLIFIER PREAMPLIFIER AND CONVERTER FOR VERY HIGH FREQUENCY RECEIVERS N63-17718 16-15	WHITETOP PROJECT - PRECIPITATION FORMATION IN CUMULUS CLOUDS OF SUMMERTIME IN MISSOURI N63-19233 18-21
PRECESSION PROTON PRECESSION MAGNETOMETER - IONOSPHERIC ELECTROMAGNETISM N63-12068 05-15	WATER BALANCE IN THE ATMOSPHERE - EVAPORATION AND PRECIPITATION CLIMATOLOGY - EFFECTS OF TOPOGRAPHY M63-19384 18-21
LIQUID MOTION IN SPHERICAL CAVITY OF RIGID BODY - EARTH PRECESSION EFFECT ON MOTION OF ITS	ANALYSIS OF PRECIPITATION OCCURRENCE USING GROUND GRID-POINT WEATHER STATIONS N63-20078 20-21
LIQUID CORE MRC-374 N63-14595 10-11	DEFECTS IN ANTIHONY DOPED SILICON - THERMAL GRADIENTS, RADIAL STRESS, DISLOCATIONS, SLIP, AND
PRECESSION TORQUES IN ELECTRICALLY SUPPORTED GYROSCOPE R-165 M63-18303 17-15	PRECIPITATION N63-21231 21-18 WEATHER RESEARCH - CLOUD MASS AND PRECIPITATION,
POWERPLANT AUTOPRECESSION ON TURBOPROPELLER	VERTICAL MOTION RESOLUTION, AND PROBABILISTIC FORECASTING N63-22241 23-21
TRANSPORT AIRCRAFT NASA-TH-D-1806 N63-19604 19-03	PRECIPITATOR
PRECESSION CONTROL AND ORBIT MAINTENANCE SYSTEMS FOR ROTATING SPACE STATIONS	AIR PURIFICATION AND CONTROL IN NUCLEAR SUB- HARIMES - ELECTROSTATIC PRECIPITATOR FOR AEROSOL REMOVAL N63-14939 11-16
NASA-CK-51729 N63-22174 23-32	ENECTROSTATIC PRECIPITATOR FOR AFROSON PARTICLE

PRECIPITATION
COPRECIPITATION, COEVAPORATION, COMMINUTION
PROCESSES FOR FABRICATING SINTERED ZIRCONIA-URANIA

14-23 ED 15-21 ICLE 6-18

7-12 TURE TES 7-12

9-21

10N 3-21

ON, -21 CM -12 1 -12 A. -18

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ELECTROSTATIC PRECIPITATOR FOR RADIOAC COLLECTION RSIC-57 N63-2	2558 23-15	IMPACT-PRESSURE PROBES IN A LOW- MYPERVELOCITY FLOW AEDC-TOR-62-208	MACA-RH-ESACDY 11-20-11-1601-668
ECISION PERMANENT MAGNETS AS PRECISION INSTRUM N63-1	ENT ELEMENTS	SUPERSONIC WIND TUNNEL TESTS ON STATIC PRESSURE PROBES USCEC-65-50	NAS-10763 02-02
HULTIRANGE PRECISION TORQUE MEASURING R-367 M63-1	SYSTEM 2776 06-15	THRESHOLD DETECTORS FOR PENETRA NEUTRONS IN MATER EUR-107-F	TION OF FAST
ECORDIUM F PHYSIOLOGY VIBROCARDIOGRAM ANALYSES RELATING PREC	ORDIAL	STABILITY OF THIN TORISPHERICAL UNIFORM INTERNAL PRESSURE WERE	SHELES TONDER HE - 03
所产生的大大的一个主张中心分下的。例如不是不可能是有工作。例如此,如此	RESSURES 2235 05-16	CRITICAL TWO-PHASE, ONE-COMPONER ANL-6633	NT FLOW 03-11
EDICTION A IMPACT PREDICTION A PERFORMANCE PREDICTION F FORECASTING	18 PEAR PAGE THIERASTI	TEMPERATURE, VOLUME, PRESSURE T THERMOOYNAMIC FUNCTIONS OF WATER UCRL-7118	ABLES OF THE 124 R 463-11179 03-23
\$650.07 TO 1	9978 19-20	ENERGY DISTRIBUTION IN AN UNDER DISCHARGE - PRESSURE FORMING AID-62-89	MATER SPARK
EFLIGHT OPERATION SPACECRAFT PREFLIGHT PREPARATION FOR N PROJECT N63-2		PRESSURE TESTS ON GUINEA PIGS E	HYNAMIC PRESSUR
ENEATER THE TECHNICED OF THE	ALMYDDS SA B.J	DASA-1313 LANGERS OF THAT I WANTED MANER	N63-12240 05-16
F HEAT EXCHANGER ELECTRIC ARC PREHEATERS FOR FORMATION TEMPERATURE JETS FTD-TT-62-1092/162 N63-1	OF HIGH	PHOTOGRAPHIC AND PRESSURE STUDY IN TRANSITION REGIONS OF TRANSO SUPERSONIC FLOW FIELD	ES OF INSTABILITY
F LAUNCHING		SIMPLIFIED THEORY FOR DYNAMIC R	50-820C-102463494
SPACE SCIENCE - PRELAUNCH PROBLEMS OF VEHICLES N63-1	5978 13-10	NACA-RH-E57113	N63-12527 06-11
LAUNCHING PAD OPERATIONS FOR MISSILES STATISTICAL PROBABILITY AND PRELAUNCH	PROBLEMS	TRANSDUCER FOR VARIABLE PRESSUR TEMPERATURE FLOWS ONERA-91	N63-12634 06-15
PROBLEMS OF PRELAUNCH CHECKOUT OF APOL	LO	EXPERIMENTAL DOUBLE-WALLED CHAM	BER ULTRAHIGH
SPACECRAFT AND LAUNCH VEHICLE N63-1		TRANSONIC WIND TUNNEL INVESTIGA	
REAL TIME METEOROLOGICAL SYSTEM FOR PR PREDICTION OF UNGUIDED ROCKET IMPACT -		AND HINGE HOMENTS ON SWEPTBACK HORIZONTAL AIRCRAFT TAIL HASA-TM-X-61	
MERCANDON MANUAL PROPERTY OF SELECTION OF SELECTION	9892 19-30	MECHANICAL PLUG GAUGE FOR AIR B EXPLOSIVES DETONATED AT DIFFERE BRL-1182	NT PRESSURES
	FUTURISTIC AL	1-10-1	NED-148SET-AZABOT
MERCURY SPACECRAFT PRELAUNCH TESTING N63-1	7518 16-32	EXCITATION OF ELECTRON PRESSURE IN THE IONOSPHERE	N69-13264 07-12
MERCURY CAPSULE CHECKOUT AND PRELAUNCH		GAINS IN PRESSURE, VOLUME FLOW PROPORTIONAL FLUID AMPLIFIER	AND POWER OF N63-13401 08-11
PRELAUNCH TESTING OF VOSTOK SPACECRAFT FTD-TT-62-1478/1626364 N63-2		HIGH SPEED FLOW OF FLUIDS THROU CAPILLARY ORIFICE FLOW HODEL, P INTERACTIONS, COMPUTER PROGRAM AROD-3005-4	GH POROUS MEDIA - LAMAR PRESSURE WAVE N63-13438 08-11
PRODUCING, PRESSING, ROLLING, AND SINT POWDERS JPRS-20810	0329 20-18	CALIBRATION OF CONICAL PROBE TO FLOW ANGLES AND MACH NUMBER ARC-CP-628	DETRHUM CHRITAL
ESSURE A ATMOSPHERIC PRESSURE A BASE PRESSURE A BLOOD PRESSURE A HICH PRESSURE	84807407A W. 81620138808 E8	COMPARISON OF SURFACE TENSION N FOR POLYPHENYLS - HORIZONTAL CA PRESSURE METHOD AND LEMARD WIRE EUR-209.D	EASUREMENT NETHODS PILLARY, BUBBLE METHOD
A HYDROSTATIC PRESSURE A LOW PRESSURE A STATIC PRESSURE A SUPERCRITICAL PRESSURE	TYTE HEALTH	PRESSURE AND TURBULENT HEAT TRA WITH SIMUSOIDAL PROTUBERANCES O MASA-TN-D-1626	NA3-13950 09-13
A SURFACE PRESSURE A YAPOR PRESSURE F COMPRESSION F FORCE A YAPOR PRESSURE F COMPRESSION A YAPOR PRESSURE F COMPRESSION A YAPOR PRESSURE F COMPRESSION A YAPOR PRESSURE F FORCE	CC Alave TI ZR48070NF	CEREBROSPINAL FLUID PULSE WITH	AL CAVITY - BIOLOGICAL PRESSURE
THEOREMS FOR CHANGE OF VOLUME AND MOME VOLUME OF ELASTIC TANKS SUBJECT TO ARB	NTS OF ITRARY 0497 01-20	STABILITY BEHAVIOR OF THIM-MALL UNDER AXIAL LOAD AND INTERNAL P DVL-243	ED CONTCAL SHELLS RESSURE
PRESSURE AS A FUNCTION OF DISTANCE AFCRL-62-1012 N63-1	0607 02-20	ATTENUATION OF TANGENT-PRESSURE LIQUID-DXYGEN-HEPTANE ROCKET EN	OSCILLATION IN

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PRESSURE INDUCED SHIFTS OF INFRARED LINES IN VIBRATION-ROTATION ABSORPTION BANGS OF HCL AFCAL-63-430 NUMERICAL ANALYSIS FOR FREE-HOLECULE IMPACT- PRESSURE RELATION FOR CIRCUAR TUBES OF ZERO ANGLE OF THE PRESSURE RELATION FOR CIRCUAR TUBES OF ZERO ANGLE OF THE PRESSURE RELATION FOR CIRCUAR TUBES OF ZERO ANGLE OF THE PRESSURE RELATION FOR CIRCUAR TUBES OF ZERO ANGLE OF THE PRESSURE AREA TION FOR CIRCUAR TUBES OF ZERO ANGLE OF THE PRESSURE RELATION FOR CIRCUAR TUBES OF ZERO ANGLE OF THE PRESSURE RELATION FOR AGOUSTIC OSCILLATION PRESSURE FLUCTUATION WITH BURNING OF SOLID COMPOSITE FUTURATION OF ACOUSTIC OSCILLATION PRESSURE ON ASSO-TOR-62-535 LIFTING TRAJECTORY FOR ABORTING VEHICLE AT OTWANIC PRESSURE OF A LUMAR RISSION NASA-TH-0-1079 ANALYSIS OF INITIAL STATIC PRESSURE COMPRESSIBLE TURBULENT LIFT NIXIN REGION NASA-TH-0-1099 ACCELEROMETER SENSITIVITY TO DYNAHIC PRESSURE ARALYSIS OF INITIAL STATIC PRESSURE PROBE FULSE OF ZERO AND AVIATION NASA-TH-0-1099 ACCELEROMETER SENSITIVITY TO DYNAHIC PRESSURE ARALYSIS OF INITIAL STATIC PRESSURE PROBE FULSE OF ZERO NASA-TH-0-1099 ACCELEROMETER SENSITIVITY TO DYNAHIC PRESSURE ARALYSIS OF INITIAL STATIC PRESSURE PROBE FULSE OF ANIMAL STATIC PRESSURE PROBE FULSE OF ANIMAL STATIC PRESSURE PROBE FULSE OF ANIMAL STATIC PRESSURE PROBE FULSE OF ZERO NASA-TH-0-1099 ACCELEROMETER SENSITIVITY TO DYNAHIC PRESSURE ARALYSIS OF INITIAL STATIC PRESSURE PROBE FULSE OF ANIMAL STATIC PRESSURE AND VELOCITY NASA-TH-0-1099 ACCELEROMETER SENSITIVITY TO DYNAHIC PRESSURE TO THE PRESSURE AND VELOCITY NASA-TH-0-1099 ACCELEROMETER SENSITIVITY TO DYNAHIC PRESSURE TO THE PRESSURE AND VELOCITY NASA-TH-0-1099 ACCELEROMETER SENSITIVITY TO DYNAHIC PRESSURE TO THE PRESSURE AND VELOCITY NASA-TH-0-1099 ACCELEROMETER SENSITIVITY TO DYNAHIC PRESSURE TO THE PRESSURE AND VELOCITY NASA-TH-0-1099 ACCELEROMETER SENSITIVITY TO THE PRESS		115
VIBRATION—ROTATION ABSORPTION BANDS OF HCL AFCRI-03-4930 NUMERICAL ANALYSIS FOR FREE-HOLECULE IMPACT- PRESSURE RELATION FOR CIRCULAR TUBES OF ZERO ANGLE OF ATTACK. UTIA-88 INTERACTION OF ACOUSTIC OSCILLATORY PRESSURE FLUCTUATION WITH BURNING OF SOLID COMPOSITE PROPELLANTS - ANALYSIS OF COMBUSTION INSTABILITY M63-15035 11-26 EFFECT OF NIGH DYNAMIC PRESSURE ON HETALLURGICAL PROPERTIES OF IRON AND TITANIUM BASE ALLOYS ASD-TOR-62-535 LIFTING TRAJECTORY FOR ABORTING VEHICLE AT OTWANIC PRESSURE OF A LUMAN MISSION MASA-TH-0-1775 CYLINDRICAL SHELL BUCKLING UNDER OWNANIC PRESSURE M63-15208 11-33 LIFTING TRAJECTORY FOR ABORTING VEHICLE AT OTWANIC PRESSURE OF A LUMAN MISSION MASA-TH-0-1795 ANALYSIS OF INITIAL STATIC PRESSURE PROBE MCASUREMENTS IN LOW-DENSITY HYPERVELOCITY WIND DENSEL ADD-10-1094 MASA-TH-0-1094 MASA-TH-0-1795 MASA-TH-0-1795 MASA-TH-0-1795 MASA-TH-0-1795 MASA-TH-0-1795 MASA-TH-0-1795 MASA-TH-0-1795 MASA-TH-0-1795 MASA-TH-0-1796 MASA-TH-0-1795 MASA-TH-0-1796 MASA-TH-0-	ING AMPLITUDE OF N63-18761	
NUMERICAL ANALYSIS FOR FREE-HOLECULE IMPACT- PRESSURE RELATION FOR CIRCULAR TUBES OF ZERO ANCIE OF ATTACK NO3-14866 11-20 INTERACTION OF ACOUSTIC OSCILLATORY PRESSURE FLUCTUATION WITH BURNING OF SOLID COMPOSITE PROPELLANT'S - ANALYSIS OF COMBUSTION INSTILLITY MO3-19036 11-26 EFFECT OF HIGH DYNAMIC PRESSURE ON METALLURGICAL PROPERTIES OF IRON AND TITANIUM BASE ALLOYS ASD-TON-02-2535 CYLINDRICAL SHELL BUCKLING UNDER DYNAMIC PRESSURE MO3-19208 11-33 LIFTING TRAJECTORY FOR ABDRITING VEHICLE AT DYNAMIC PRESSURE OF A LUMAR MISSION MASA-THD-0-1775 FLOW PATTERN WITHIN CONSTANT PRESSURE COMPRESSIBLE TURBULENT JET RIXING REGION MO3-15323 12-11 MASA-THD-0-1894 MO3-15323 12-11 ACCELEROMETER SENSITIVITY TO DYNAMIC PRESSURE PLASSUREMENTS IN LOW-DENSITY HYPERVELOCITY WIND TUBURL ACCELEROMETER SENSITIVITY TO DYNAMIC PRESSURE ON IRON- BASE ALLOYS ASD-TOR-62-442 AFTERBURHER COMBUSTION EFFICIENCY - EFFECTS OF CHAMBER LENGTH, TERPERATURE, PRESSURE AND VELOCITY MO3-10708-62-442 AFTERBURHER COMBUSTION EFFICIENCY - EFFECTS OF CHAMBER LENGTH, TERPERATURE, PRESSURE AND VELOCITY MO3-10708-62-442 AFTERBURHER COMBUSTION FOR HYDROGENS R-271 MELTING PRESSURE EQUATION FOR HYDROGENS R-271 STRESS DISTRIBUTION AROUND HOLES IN SPHERICAL SHELL MERBRANE UNDER INTERNAL PRESSURE MO3-17700 16-15 OPTIMUM ORBITAL TRANSFER USING SOLAR RADIATION PRESSURE THRUSTING DEVICE CRITICAL BUCKLING PRESSURE CURVES FOR CYLINDERS OF FINITE LENGTH MITH SAMOWICH MALLS FPL-07 NO3-17915 16-33 SOLIDS UNDER PRESSURE LECTOR OF FINITE LENGTH MITH SAMOWICH MALLS FPL-07 NO3-17915 16-33 SOLIDS UNDER PRESSURE LECTOR OF FINITE LENGTH MITH SAMOWICH MALLS FPL-07 NO3-17915 16-33 SOLIDS UNDER PRESSURE LECTOR OF FINITE LENGTH MITH SAMOWICH MALLS FPL-07 NO3-17915 16-33 SOLIDS UNDER PRESSURE LECTOR OF FINITE LENGTH MITH SAMOWICH MALLS FPL-07 NO3-17915 16-33 SOLIDS UNDER PRESSURE CORPESSURE OF CYLINDERS OF FINITE LENGTH MITH SAMOWICH MALLS FPL-07 NO3-17915 16-33 SOLIDS UNDER PRESSURE CORPESSURE CORPESSURE OF CYLINDERS OF FINITE LENGTH MITH SAMOWICH MALLS FPL-	N MEDICINE	18-16
UNITEMENTION OF ACOUSTIC OSCILLATORY PRESSURE FLUCTUATION WITH BURNING OF SOLID COMPOSITE PROPELLANTS - ANALYSIS OF COMBUSTION INSTABLLITY MS3-15035 11-26 EFFECT OF HIGH DYNAMIC PRESSURE ON METALLURGICAL PROPERTIES OF IRON AND TITATIVE MASS ALLOYS ASD-TOR-02-535 M3-15006 11-18 LIFTING TRAJECTORY FOR ADDRITING VEHICLE AT DYNAMIC PRESSURE FOR LUMAR MISSION MS3-15006 12-29 FLOW PATTERN WITHIN CONSTANT PRESSURE COMPRESSIBLE TURBULENT JET MIXING REGION MS3-15306 12-29 FLOW PATTERN WITHIAL STATIC PRESSURE PROBE MASJUREMENTS IN LOW-DERSITY MYPERVECOCITY WIND TURNEL AEDC-TOR-63-94 M93-15484 12-11 ASD-TOR-62-42 M93-15484 12-11 AFTERBURRER COMBUSTION EFFICIENCY - EFFECTS OF GHAMBER ELENGTH, TEMPERATURE, PRESSURE M93-16236 13-26 MS2-171502 16-15 STAESS DISTRIBUTION AROUND MOLES IN SPHERICAL SHELL MERGAME UNDER INTERNAL PRESSURE SA FUNCTION OF OURATION - BIOLOGICAL EFFECTS OF BOMB BLASTS OASA-1325 TOLERANCE OF ANIMALS TO OVERPRESSURES AS FUNCTION OF OURATION - BIOLOGICAL EFFECTS OF BOMB BLASTS STAESS DISTRIBUTION AROUND MOLES IN SPHERICAL SHELL MERGAME UNDER INTERNAL PRESSURE RE-163 TOLERANCE OF ANIMALS TO OVERPRESSURES AS FUNCTION OF OURATION - BIOLOGICAL EFFECTS OF BOMB BLASTS STALLTY OF TORIS TOLERANCE OF ANIMALS TO OVERPRESSURES AS FUNCTION OF OURATION - BIOLOGICAL EFFECTS OF BOMB BLASTS STAELS DISTRIBUTION AROUND MOLES IN SPHERICAL SHELL MERGAME UNDER INTERNAL PRESSURE RE-163 THERMOLY AND FROM DISSONE RE-163 CHARACTERISTICS OF ALTITUDE COMPUTER SYSTEM FOR COMMERCIAL AIRCRAFT - PRESSURE AND VELOCITY TO TRANSPONDER OR ALTIMETER DISPLAY M63-17700 16-15 OPTIMUM ORBITAL TRANSFER USING SOLAR RADIATION PRESSURE THRUSTING DEVICE CRITICAL BUCKLING PRESSURE CUEVES FOR CYLINDERS OF FINITE LENGTH WITH SANOMLICH MALLS FPL-07 M63-17705 16-29 CRITICAL BUCKLING PRESSURE CUEVES FOR CYLINDERS OF FINITE LENGTH WITH SANOMLICH MALLS FPL-07 M63-17706 16-29 CRITICAL BUCKLING PRESSURE CUEVES FOR CYLINDERS OF FINITE LENGTH WITH SANOMLICH MALLS FPL-07 FREPEROR OR ALTITUDE COMPUTER SYSTEM FOR COMPANDATION FRESSURE CUEVES FOR CYLIN		20-13
FLUCTUATION WITH BURNING OF SOLID COMPOSITE PROPELLANTS - ANALYSIS OF COMBUSTION INSTABILITY M63-15035 11-26 EFFECT OF HIGH DYNAMIC PRESSURE ON HETALLURGICAL PROPERTIES OF IRON AND TITANIUM BASE ALLOYS ASD-TOR-62-535 M3-15064 11-18 LISTING TRAJECTORY FOR ADDRING VEHICLE AT DYNAMIC PRESSURE OF A LUNAR MISSIOM MASA-TN-D-1775 M3-15306 12-29 FLOW PATTERN WITHIN CONSTANT PRESSURE COMPRESSIBLE TURBULENT JET MIXING REGION MASA-TN-D-1894 M3-15323 12-11 MASA-TN-D-1894 M3-15323 12-11 ACCELEROMETER SENSITIVITY TO DYNAMIC PRESSURE PREASUREMENTS IN LOW-DENSITY HYPERVELOCITY WIND TURNEL ACCELEROMETER SENSITIVITY TO DYNAMIC PRESSURE PULSE - VIBRATION M3-15484 12-11 ACCELEROMETER SENSITIVITY TO DYNAMIC PRESSURE PULSE - VIBRATION M3-16306 13-18 AFTERBURAR COMBUSTION EFFICIENCY - EFFECTS OF CHAMBER LENGTH, TEMPERATURE, PRESSURE AND VELOCITY MACA-RN-E57CO7 M3-16236 13-26 M3-17508 16-16 STRESS DISTRIBUTION AROUND HOLES IN SPHERICAL STRESS DIS	PHERICAL SHELLS U	IDER
SYSTEM AND FROM DISSOCIATION PROPERTIES OF IRON AND TITANIUM BASE ALLOYS ASD-TOR-62-535 N63-19046 11-18 CYLINDRICAL SHELL BUCKLING UNDER DYNAMIC PRESSURE N63-19208 11-33 LIFTING TRAJECTORY FOR ABORTING VEHICLE AT DYNAMIC PRESSURE OF A LUNAR MISSION MASA-TN-0-1779 M63-15308 12-29 FLOW PATTERN WITHIN CONSTANT PRESSURE COMPRESSIBLE TURBULENT JET MIXING REGION MASA-TN-0-1894 M63-15323 12-11 AMALYSIS OF INITIAL STATIC PRESSURE PROBE MEASUBERENTS IN LOW-DENSITY HYPERVELOCITY WIND TUMNHEL AEDC-TDR-63-94 M63-15484 12-11 ACCELEROMETES SENSITIVITY TO DYNAMIC PRESSURE PULSE - VIBRATION M63-16009 13-15 EFFECT OF SHOCK-INDUCED DYNAMIC PRESSURE SOD-TOR-62-442 M63-16116 13-18 AFTERBURNER COMBUSTION EFFICIENCY - EFFECTS OF CHAMBER LENGTH, TEMPERATURE, PRESSURE AND VELOCITY WAGA-RH-657607 M63-161286 13-26 MELTING PRESSURE EQUATION FOR HYDROGENS NASA-1325 M63-1700 16-15 STRESS DISTRIBUTION ARQUIND HOLES IN SPHERICAL SHELL REMBRAME UNDER INTERNAL PRESSURE RE-183 M63-1700 16-15 OPTINUM ORBITAL TRANSFER USING SOLAR RADIATION PRESSURE THRUSTING OFVICE R63SD30 M63-17766 16-29 CRITICAL BUCKLING PRESSURE CURVES FOR CYLINDERS OF FINITE LEBGTH WITH SANDWICH WALLS FPL-07 M63-17935 16-33 SYSTEM AND FROM DISSOCIATION HITE CHARGE BRL-1206 ATTITUDE CONTROL OF INTERPL SOLAR RADIATION IN THE DIRECTIO FINITE CHARGE BRL-1206 ATTITUDE CONTROL OF INTERPL ARDOTATION PRESSURE AT EXPLOSIVE INTERACTION IN THE DIRECTION FRESSURE AT EXPLOSIVE BRILLOOF ATTITUDE CONTROL OF INTERPL ARDOTATION PRESSURE AT EXPLOSIVE HITCACTURE THE DIRECTION FRESSURE AT EXPLOSIVE BRILLOOF ATTITUDE CONTROL OF INTERPL ARDOTATION PRESSURE BRL-1206 ATTITUDE CONTROL OF INTERPL ARDOTATION PRESSURE BRL-1206 ATTITUDE CONTROL OF INTERPL ARACTERISTICS OF ALTITUDE CONTROL BRESSURE LITERA CASTIC THE DIRECTIO FRESSURE AT EXPLOSIVE BRILLOOF ATTITUDE CONTROL ATTITUDE CONTROL ATTITUDE CONTROL ATTITUDE CONTROL ATTITUDE CONTROL BRILLOOF BRILLOOF BRILLOOF ALTIC CHARGE BRL-1206 BRL-1206 BRIL-206 BRIL-206 BRIL-206 BRIL-206 ATTITUDE CONTROL ATTITUDE CONTROL ATT	FROM HYDROGEN-WAL	20-33 FB
ASO-TOR-62-535 N63-13064 11-18 CYLINDRICAL SHELL BUCKLING UNDER OYNAHIC PRESSURE HITERACTION IN THE DIRECTIO PRIVIDITE CHARGE M63-13208 11-33 LIFTING TRAJECTORY FOR ABORTING VEHICLE AT DYNAMIC PRESSURE OF A LUNAR MISSION M63-15306 12-29 FLON PATTERN MITHIN CONSTANT PRESSURE COMPRESSIBLE TURBULENT JET MIXTING REGION M63-15323 12-11 ANALYSIS OF INITIAL STATIC PRESSURE PROBE MEASUREMENTS IN LON-DENSITY HYPERVELOCITY WIND TURNEL ABOUT MASA-THA-0-1894 M63-15323 12-11 ACCELEROMETER SENSITIVITY TO DYNAMIC PRESSURE M63-16940 13-15 EFFECT OF SHOCK-INDUCED DYNAMIC PRESSURES ON IRON-8ASE ALLOWS M63-16040 13-16 AFTERBURNER COMBUSTION EFFICIENCY - EFFECTS OF CHAMBER LENGTH, TEMPERATURE, PRESSURE AND VELOCITY M63-16236 13-26 MECTING PRESSURE EQUATION FOR HYDROGEMS M63-17509 16-16 AFTERBURNER COMBUSTION EFFICIENCY - EFFECTS OF BOMB BLASTS M63-17505 16-18 STRESS DISTRIBUTION AROUND HOLES IN SPHERICAL SHELLS PRESSURE, AND AXIAL COMPRES TRE-19 CHARACTERISTICS OF ALTITUDE COMPUTER SYSTEM FOR COMMERCIAL AIRCRAFT - PRESSURE ALTITUDE OUTPUT TO TRANSPONDER OR ALTIMETER UISING SOLAR RADIATION PRESSURE UISING S		7230
LIFTING TRAJECTORY FOR ABORTING VEHICLE AT OYNAMIC PRESSURE OF A LUNAR MISSION MASA-TW-O-1775 M63-15306 12-29 FLOW PATTERN WITHIN CONSTANT PRESSURE COMPRESSIBLE TURBULENT JET MIXING REGION MASA-TW-O-1894 M63-15323 12-11 AMALYSIS OF INITIAL STATIC PRESSURE PROBE MEASUREMENTS IN LOW-DENSITY HYPERVELOCITY WIND TUNNEL AEDC-TDR-63-94 M63-15484 12-11 ACCELEROMETER SENSITIVITY TO DYNAMIC PRESSURE PROBE MEASURE COMPRESSURE SASE ALLOYS M63-164090 13-15 EFFECT OF SHOCK-INDUCED DYNAMIC PRESSURES ON IRON-865E ALLOYS M63-16106 13-18 AFTERBURNER COMBUSTION EFFICIENCY - EFFECTS OF CHAMBER LENGTH, TEMPERATURE, PRESSURE AND VELOCITY MACA-RH-E57CO7 M63-16236 13-26 MELTING PRESSURE EQUATION FOR HYDROGENS M63-1616 13-18 AFTERBURNER COMBUSTION EFFICIENCY - EFFECTS OF COMPRESSURE MOST AND ANIAL COMPRESSURE AND ANIAL COMPRESSOR AND ANIAL COMPRESSOR AND ANIAL COMPRESSOR AND ANIAL C	N OF CHARGE MOTIO	120
OVNAMIC PRESSURE OF A LUMAR MISSION MASA-TW-O-1775 FLOW PATTERN WITHIN CONSTANT PRESSURE COMPRESSIBLE TURBULENT JET MIXING REGION MASA-TW-O-1894 ANALYSIS OF INITIAL STATIC PRESSURE PROBE MEASUREMENTS IN LOW-DENSITY HYPERVELOCITY WIND TURNEL ACCELEROMETER SENSITIVITY TO DYNAMIC PRESSURE PULSE - VIBRATION MASA-16090 ACCELEROMETER SENSITIVITY TO DYNAMIC PRESSURE PULSE - VIBRATION MASA-16090 AFTERBURNER COMBUSTION EFFICIENCY - EFFECTS OF CHAMBER LENGTH, TEMPERATURE, PRESSURE AND VELOCITY MACA-AH-ESTCO7 MELTING PRESSURE EQUATION FOR HYDROGENS NAS-17308 TOLERANCE OF ANIMALS TO OVERPRESSURES AS FUNCTION OF DURATION - BIOLOGICAL EFFECTS OF BOMB BLASTS DASA-1325 TOLERANCE OF ANIMALS TO OVERPRESSURE SENCETION OF OURATION - BIOLOGICAL EFFECTS OF BOMB BLASTS DASA-1325 TOLERANCE OF ALTITUDE COMPUTER SYSTEM FOR RE-163 CHARACTERISTICS AND AXIAL COMPRES TAE-19 BUCKLING OF CONICAL SHELLS PRESSURE, AND AXIAL COMPRES TAE-19 RESONANT MODES OF GAS PRESS SINUSIDIAL PRESSURE GENERAT CYLINDRICAL CHAMBER NASA-CR-51517 RESONANT MODES OF GAS PRESS SINUSIDIAL PRESSURE GENERAT CYLINDRICAL CHAMBER NASA-CR-51517 CALCULATION OF PARTIAL VAPO ACID DURING VAPOR PHASE TRA UCRL-10886 COMBUSTION PRESSURE OF MANGANESS-COP PAILAL SITCEMENT OF MANGANESS OF FEMALES. PROBES		
TURBULENT JET HIXING REGION MASA-TM-O-1694 ANALYSIS OF INITIAL STATIC PRESSURE PROBE MEASUREMENTS IN LOW-DENSITY HYPERVELOCITY WIND TUNNEL AEDC-TOR-63-94 MS3-15484 ACCELEROMETER SENSITIVITY TO DYNAMIC PRESSURE PULSE - VIBRATION EFFECT OF SHOCK-INDUCED DYNAMIC PRESSURE ASD-TOR-62-442 M63-1616 AFTERBURNER COMBUSTION EFFICIENCY - EFFECTS OF CHAMBER LENGTH, TEMPERATURE, PRESSURE AND VELOCITY MACA-RM-E57CO7 MELTING PRESSURE EQUATION FOR HYDROGEMS R-271 TOLERANCE OF ANIMALS TO GYERPRESSURES AS FUNCTION OF OURATION - BIOLOGICAL EFFECTS OF BOMB BLASTS DASA-1325 STRESS DISTRIBUTION AROUND HOLES IN SPHERICAL SHELL MEMBRANE UNDER INTERNAL PRESSURE RE-163 CHARACTERISTICS OF ALTITUDE COMPUTER SYSTEM FOR COMMERCIAL AIRCRAFT - PRESSURE ALTITUDE OUTPUT TO TRANSPONDER OR ALTIMETER DISPLAY OPTIMUM ORBITAL TRANSFER USING SOLAR RADIATION PRESSURE THRUSTING DEVICE R635D30 CRITICAL BUCKLING PRESSURE CURVES FOR CYLINDERS OF FINITE LENGTH MITH SANDWICH MALLS FPL-07 M63-179A5 16-33 TEMPERATURE PROBES, VELOCITY WGL-5/1962 PRESSURE CHARACTERISTICS, AND GAS DY WGL-5/1962 PRESSURE CHARACTERISTICS IN SUPERSORIC FLOM - STATIC AN PROBES LINEAR ELASTIC STRUCTURE RE FORCES LINEAR ELASTIC STRUCTURE RE FORCES BUCKLING OF CONICAL SHELLS RESONANT MODES OF GAS PRESS SINUSCIDAL PRESSURE GENERAL CYLINDRICAL CHAMBER MASA-CR-51517 MASA-CR-51517 CALCULATION OF PARTIAL VAPO ACID DURING VAPOR PHASE TRA UCAL-10886 COMMENTATION OF PARTIAL VAPO ACID DURING VAPOR PHASE TRA UCAL-10886 COMMENTATION OF PARTIAL VAPO ACID DURING PRESSURE ON IRON- BUCKLING OF CONICAL SHELLS RESONANT MODES OF GAS PRESS SINUSOIDAL PRESSURE CYLINDRICAL CHAMBER MASA-CR-51517 CALCULATION OF PARTIAL VAPO ACID DURING VAPOR PHASE TRA UCAL-10886 COMMENTATION OF PARTIAL VAPO ACID DURING PRESSURE ON IRON- BUCKLING OF CONICAL SHELLS RESONANT MODES OF GAS PRESS SINUSOIDAL PRESSURE ON IRON- MASA-CR-51517 MA		district the
AMALYSIS OF INITIAL STATIC PRESSURE PROBE MEASUREMENTS IN LOW-DENSITY HYPERVELOCITY NIND TUNNEEL AEDC-TDR-63-94 ACCELEROMETER SENSITIVITY TO DYNAMIC PRESSURE PULSE - VIBRATION ACCELEROMETER SENSITIVITY TO DYNAMIC PRESSURE PULSE - VIBRATION MAG-163-15484 ACCELEROMETER SENSITIVITY TO DYNAMIC PRESSURE PULSE - VIBRATION MAG-163-15484 ACCELEROMETER SENSITIVITY TO DYNAMIC PRESSURE PULSE - VIBRATION MAG-163-15484 ACCELEROMETER SENSITIVITY TO DYNAMIC PRESSURE PULSE - VIBRATION MAG-163-15484 ACCELEROMETER SENSITIVITY TO DYNAMIC PRESSURE BASE ALLOYS ASD-TOR-62-442 MAG-163-154 AFTERBURNER COMBUSTION EFFICIENCY - EFFECTS OF CHAMBER LENGTH, TEMPERATURE, PRESSURE AND VELOCITY NACA-RM-E-57CO7 MAG-1616 MELTING PRESSURE EQUATION FOR HYDROGENS R-271 TOLERANCE OF ANIMALS TO QUERPRESSURES AS FUNCTION OF DURATION - BIOLOGICAL EFFECTS OF BOMB BLASTS DASA-1325 STRESS DISTRIBUTION AROUND HOLES IN SPHERICAL STRESS DISTRIBUTION AROUND HOLES IN SPHERICAL STRESS DISTRIBUTION AROUND HOLES IN SPHERICAL CHARACTERISTICS OF ALTITUDE COMPUTER SYSTEM FOR COMMERCIAL AIRCRAFT - PRESSURE ALTITUDE OUTPUT TO TRANSPONDER OR ALTITUTE COMPUTER SYSTEM FOR COMMERCIAL AIRCRAFT - PRESSURE ALTITUDE OUTPUT TO TRANSPONDER OR ALTITUDE COMPUTER SYSTEM FOR COMMERCIAL AIRCRAFT - PRESSURE ALTITUDE OUTPUT TO TRANSPONDER OR ALTITUDE COMPUTER SYSTEM FOR COMMERCIAL AIRCRAFT - PRESSURE ALTITUDE OUTPUT TO TRANSPONDER OR ALTITUDE COMPUTER SYSTEM FOR COMMERCIAL AIRCRAFT - PRESSURE ALTITUDE OUTPUT TO TRANSPONDER OR ALTITUDE COMPUTER SYSTEM FOR COMMERCIAL AIRCRAFT - PRESSURE ALTITUDE OUTPUT TO TRANSPONDER OR ALTITUDE COMPUTER SYSTEM FOR COMMERCIAL AIRCRAFT - PRESSURE ALTITUDE OUTPUT TO TRANSPONDER OR ALTITUDE COMPUTER SYSTEM FOR COMMERCIAL AIRCRAFT - PRESSURE ALTITUDE OUTPUT TO TRANSPONDER OR ALTITUDE COMPUTER SYSTEM FOR COMMERCIAL AIRCRAFT - PRESSURE ALTITUDE OUTPUT TO TRANSPONDER OR ALTITUDE COMPUTER SYSTEM FOR COMMERCIAL AIRCRAFT - PRESSURE ALTITUDE OUTPUT TO TRANSPONDER OR ALTITUDE COMPUTER SYSTEM FOR COMMERCIAL AIRCRAFT - PRESSURE ALTITUDE OUTPUT TO TRA	Y HEASUREMENTS, FI	ON
TUNNEL AEDC-TDR-63-94 ACCELEROMETER SENSITIVITY TO DYNAHIC PRESSURE PULSE - VIBRATION M63-16900 13-15 EFFECT OF SHOCK-INDUCED DYNAHIC PRESSURES ON IRON- BASE ALLOYS ASD-TDR-62-442 M63-16116 AFTERBURRNER COMBUSTION EFFICIENCY - EFFECTS OF CHAMBER LENGTH, TEMPERATURE, PRESSURE AND VELOCITY NACA-RH-E57CO7 MELTING PRESSURE EQUATION FOR HYDROGENS R-271 TOLERANCE OF ANIMALS TO OVERPRESSURES AS FUNCTION OF OURATION - BIOLOGICAL EFFECTS OF BOMB BLASTS DASA-1325 STRESS DISTRIBUTION AROUND HOLES IN SPHERICAL SHELL MEMBRANE UNDER INTERNAL PRESSURE M63-17508 CHARACTERISTICS OF ALTITUDE COMPUTER SYSTEM FOR COMMERCIAL AIRCRAFT - PRESSURE ALTITUDE OUTPUT TO TRANSPONDER OR ALTIMETER DISPLAY DPTIMUM ORBITAL TRANSFER USING SOLAR RADIATION PRESSURE THRUSTING DEVICE R635D30 CRITICAL BUCKLING PRESSURE CURVES FOR CYLINDERS OF FINITE LENGTH MITH SANDWICH MALLS FPL-07 N63-17915 16-33 SUPERSONIC FLOW - STATIC AN PROBES LINEAR ELASTIC STRUCTURE RE FORCES ANNUAL MEATHER VARIATION - RAINFALL RSIC-61 BUCKLING OF CONICAL SHELLS PRESSURE, AND AXIAL COMPRES TAE-19 RESONANT MODES OF GAS PRESS SINUSOIDAL PRESSURE GENERAT CYLINDRICAL CHAMBER NASA-CR-51517 CALCULATION OF PARTIAL VAPO ACID DURING VAPOR PHASE TRA UCRL-10886 COMBUSTION PRESSURE OSCILLA BURNING PREMIXED OR UNMIXED F-63-2 CYCLIC MATERIAL DAMPING IN SPECIMENS OF MANGANESE-COPP AXIAL & INTERNAL PRESSURE L ASD-TOR-63-647 SOLIDS UNDER PRESSURE - TEMPERATURE, DIELECTRIC CON PROBES LINEAR ELASTIC STRUCTURE RE FORCES ANNUAL MEATHER VARIATION - RAINFALL RSIC-61 BUCKLING OF CONICAL SHELLS RSIC-61 RAPICAL RSIC-61 ANNUAL MEATHER VARIATION - RAINFALL RSIC-61 BUCKLING OF CONICAL SHELLS RSIC-61 COMBUSTION PRESSURE OF CONICAL SHELLS RAPICAL RAINFALL RSIC-61 COMBUSTION PRESSURE OF CONICAL SHELLS RAINFALL RSIC-61 COMBUSTION PRESSURE OF CALCULATION OF PARTIAL VAPO ACID DURING PRESSURE OF MANGANESE-COPP AXIAL & INTERNAL PRESSURE AND AXIAL COMPRES TAE-19 CALCULATION OF PARTIAL VAPO ACID LOCATION OF PARTIAL VAPO ACID LOCATION OF PARTIAL VAPO ACID LOCATION OF PARTIAL VAPO	N63-20803	21-15
EFFECT OF SHOCK-INDUCED DYNAMIC PRESSURES ON IRON- 8ASE ALLOYS ASD-TOR-62-442 M63-16116 AFTERBURNER COMBUSTION EFFICIENCY - EFFECTS OF CHAMBER LENGTH, TEMPERATURE, PRESSURE AND VELOCITY NACA-RH-E57CO7 MELTING PRESSURE EQUATION FOR HYDROGENS R-271 TOLERANCE OF ANIMALS TO GVERPRESSURES AS FUNCTION OF OURATION - BIOLOGICAL EFFECTS OF BOMB BLASTS DASA-1325 STRESS DISTRIBUTION AROUND HOLES IN SPHERICAL SHELL NENBRANE UNDER INTERNAL PRESSURE M63-17508 CHARACTERISTICS OF ALTITUDE COMPUTER SYSTEM FOR COMMERCIAL AIRCRAFT - PRESSURE ALTITUDE OUTPUT TO TRANSPONDER OR ALTITUTE COMPUTER SYSTEM FOR COMMERCIAL AIRCRAFT - PRESSURE ALTITUDE OUTPUT TO TRANSPONDER OR ALTITUTE COMPUTER SYSTEM FOR COMMERCIAL AIRCRAFT - PRESSURE ALTITUDE OUTPUT TO TRANSPONDER OR ALTITUTE COMPUTER SYSTEM FOR COMMERCIAL AIRCRAFT - PRESSURE ALTITUDE OUTPUT TO TRANSPONDER OR ALTITUTE COMPUTER SYSTEM FOR COMMERCIAL AIRCRAFT - PRESSURE ALTITUDE OUTPUT TO TRANSPONDER OR ALTITUTE COMPUTER SYSTEM FOR COMBUSTION PRESSURE OSCILLA BURNING PREMIXED OR UNMIXED F-03-2 CYCLIC MATERIAL DAMPING IN SPECIMENS OF MANGANESE-COPP AXIAL & INTERNAL PRESSURE L ASD-170-63-647 SOLIDS UNDER PRESSURE - X-R TEMPERATURE, DIELECTRIC CON ANNUAL MEATHER VARIATION - RAINFALL RSIC-61 ANNUAL MEATHER VARIATION - RAINFALL RSIC-61 RSIC-61 RSIC-61 RSIC-61 RSIC-61 RSIC-61 RSIC-61 RAINFALL RSIC-61 ANNUAL MEATHER VARIATION - RAINFALL RSIC-61 RAINFALL RSIC-61 RAINFALL RSIC-61 RAINFALL RSIC-61 RAINFALL RSIC-61 RAINFALL RSIC-61 ANNUAL MEATHER VARIATION - RAINFALL RSIC-61 RAINFALL RSIC-61 CALCULATION OF PARTIAL VAPO ACID DURING VAPOR PHASE TRA URL-10386 COMBUSTION PRESSURE OF TOTAL VAPOR ACID DURING VAPOR PHASE TRA COLOLLING RESURE OF TOTAL VAPOR ACID DURING VAPOR PHASE		
BASE ALLOYS ASD-TOR-62-442 M63-16116 METERBURNER COMBUSTION EFFICIENCY - EFFECTS OF CHAMBER LENGTH, TEMPERATURE, PRESSURE AND VELOCITY NACA-RM-E57CO7 MELTING PRESSURE EQUATION FOR HYDROGENS R-271 TOLERANCE OF ANIMALS TO GVERPRESSURES AS FUNCTION OF OURATION - BIOLOGICAL EFFECTS OF BOMB BLASTS DASA-1325 STRESS DISTRIBUTION AROUND HOLES IN SPHERICAL SHELL NEMBRANE UNDER INTERNAL PRESSURE RE-163 M63-17671 CHARACTERISTICS OF ALTITUDE COMPUTER SYSTEM FOR COMMERCIAL AIRCRAFT - PRESSURE ALTITUDE OUTPUT TO TRANSPONDER OR ALTIMETER DISPLAY M63-17700 DPTIMUM ORBITAL TRANSFER USING SOLAR RADIATION PRESSURE THRUSTING DEVICE R635030 M63-17766 M63-17766 M63-17915 MODER INCREASED PRESSURE - ANNUAL MEATHER VARIATION - RAINFALL RASIC-61 BUCKLING OF CONICAL SHELLS PRESSURE, AND AXIAL COMPRES SINUSDIDAL PRESSURE GENERAT CYLINDRICAL CHAMBER MASA-CR-51517 CALCULATION OF PARTIAL VAPO ACID DURING VAPOR PHASE TRA UCRL-10886 COMBUSTION PRESSURE OCCILLA BURNING PREMIXED OR UNMIXED F-63-2 CYCLIC MATERIAL DAMPING IN SPECIMENS OF MANGANESE-COPP AXIAL E INTERNAL PRESSURE ANNUAL MEATHER VARIATION - RASIC-61 BUCKLING OF CONICAL SHELLS PRESSURE, AND AXIAL COMPRES SINUSDIDAL PRESSURE CALCULATION OF PARTIAL VAPO ACID DURING VAPOR PHASE TRA UCRL-10886 COMBUSTION OF PARTIAL VAPO ACID DURING VAPOR PHASE TRA UCRL-10886 COMBUSTION OF PARTIAL VAPO ACID DURING VAPOR PHASE TRA UCRL-10886 COMBUSTION OF PARTIAL PRESSURE AND AXIAL COMPRES CALCULATION OF PARTIAL VAPO ACID DURING VAPOR PHASE TRA UCRL-10886 COMBUSTION OF MANGANESE-COPP AXIAL E INTERNAL PRESSURE AND AXIAL COMPRES CALCULATION OF PARTIAL VAPO ACID DURING VAPOR PHASE		21-33
AFTERBURNER COMBUSTION EFFICIENCY - EFFECTS OF CHAMBER LENGTH, TEMPERATURE, PRESSURE AND VELOCITY NACA-RM-E57CO7 N63-16236 13-26 MELTING PRESSURE EQUATION FOR HYDROGENS N63-17135 15-11 TOLERANCE OF ANIMALS TO OVERPRESSURES AS FUNCTION OF DURATION - BIOLOGICAL EFFECTS OF BOMB BLASTS N63-17508 16-16 STRESS DISTRIBUTION AROUND HOLES IN SPHERICAL SHELLS PRESSURE, AND AXIAL COMPRES TAE-19 CHARACTERISTICS OF ALTITUDE COMPUTER SYSTEM FOR COMMERCIAL AIRCRAFT - PRESSURE ALTITUDE OUTPUT TO TRANSPONDER OR ALTITUDE COMPUTER SYSTEM FOR COMMERCIAL AIRCRAFT - PRESSURE ALTITUDE OUTPUT TO TRANSPONDER OR ALTITUDE COMPUTER SYSTEM FOR COMMERCIAL AIRCRAFT - PRESSURE ALTITUDE OUTPUT TO TRANSPONDER OR ALTITUDE COMPUTER SYSTEM FOR COMMERCIAL AIRCRAFT - PRESSURE ALTITUDE OUTPUT TO TRANSPONDER OR ALTITUDE COMPUTER SYSTEM FOR COMMERCIAL AIRCRAFT - PRESSURE AS FUNCTION FOR SURVEY OF THE COMPUTER SYSTEM FOR COMMERCIAL AIRCRAFT - PRESSURE AS FUNCTION FOR SURVEY OF THE COMPUTER SYSTEM FOR COMMERCIAL AIRCRAFT - PRESSURE AS FUNCTION FOR SURVEY OF THE COMPUTER SYSTEM FOR COMMERCIAL AIRCRAFT - PRESSURE AS FUNCTION FOR SURVEY OF THE COMPUTER SYSTEM FOR COMPUTE		22-16
MELTING PRESSURE EQUATION FOR HYDROGENS R-271 TOLERANCE OF ANIMALS TO OVERPRESSURES AS FUNCTION OF DURATION - BIOLOGICAL EFFECTS OF BOMB BLASTS DASA-1325 N63-17508 16-16 STRESS DISTRIBUTION AROUND HOLES IN SPHERICAL SHELL MEMBRANE UNDER INTERNAL PRESSURE RE-163 CHARACTERISTICS OF ALTITUDE COMPUTER SYSTEM FOR COMMERCIAL AIRCRAFT - PRESSURE ALTITUDE OUTPUT TO TRANSPONDER OR ALTIMETER DISPLAY N63-17700 TRANSPONDER OR ALTIMETER DISPLAY N63-17700 TRANSPONDER OR ALTIMETER DISPLAY N63-17700 TRANSPONDER OR ALTIMETER DISPLAY N63-17706 TOPTIMUM ORBITAL TRANSFER USING SOLAR RADIATION PRESSURE THRUSTING DEVICE N63-17766 TOPTIMUM ORBITAL TRANSFER USING SOLAR RADIATION PRESSURE THRUSTING DEVICE N63-17766 TOPTIMUM ORBITAL TRANSFER USING SOLAR RADIATION PRESSURE THRUSTING DEVICE N63-17766 TOPTIMUM ORBITAL TRANSFER USING SOLAR RADIATION PRESSURE THRUSTING DEVICE N63-17766 TOPTIMUM ORBITAL TRANSFER USING SOLAR RADIATION PRESSURE THRUSTING DEVICE N63-17766 TOPTIMUM ORBITAL TRANSFER USING SOLAR RADIATION PRESSURE THRUSTING DEVICE N63-17766 TOPTIMUM ORBITAL TRANSFER USING SOLAR RADIATION PRESSURE THRUSTING DEVICE N63-17760 TOPTIMUM ORBITAL TRANSFER USING SOLAR RADIATION PRESSURE THRUSTING DEVICE N63-17766 TOPTIMUM ORBITAL TRANSFER USING SOLAR RADIATION PRESSURE THRUSTING DEVICE N63-17766 TOPTIMUM ORBITAL TRANSFER USING SOLAR RADIATION PRESSURE TALL TOPTIMUM ORBIT	PRESSURE PATTERNS N63-21687	AND 22-21
TAE-19 TAE-19 TAE-19 TAE-19 TAE-19 TAE-19 TAE-19 TAE-19 TAE-19 RESONANT MODES OF GAS PRESS SINUSCIDAL PRESSURE GENERAT CYLINDRICAL CHAMBER NASA-CR-51517 STRESS DISTRIBUTION AROUND HOLES IN SPHERICAL SHELL NEMBRANE UNDER INTERNAL PRESSURE N63-17671 16-33 CHARACTERISTICS OF ALTITUDE COMPUTER SYSTEM FOR COMMERCIAL AIRCRAFT - PRESSURE ALTITUDE OUTPUT TO TRANSPONDER OR ALTIMETER DISPLAY DPTIMUM ORBITAL TRANSFER USING SOLAR RADIATION PRESSURE THRUSTING DEVICE R635D30 CRITICAL BUCKLING PRESSURE CURVES FOR CYLINDERS OF FINITE LEMGTH MITH SANDWICH MALLS FPL-07 TAE-19 RESONANT MODES OF GAS PRESS SINUSCIDAL PRESSURE GENERAT COLOR TO THE SANDSOLA CHAMBER NASA-CR-51517 CALCULATION OF PARTIAL VAPO ACID DURING VAPOR PHASE TRA BURNING PREMIXED OR UNMIXED F-63-2 CYCLIC MATERIAL DAMPING IN SPECIMENS OF MANGANESE-COPP AXIAL & INTERNAL PRESSURE L ASD-TOR-63-647 SOLIDS UNDER PRESSURE - X-R TEMPERATURE, DIELECTRIC CON	UNDER EXTERNAL TO	
STRESS DISTRIBUTION AROUND HOLES IN SPHERICAL SHELL MEMBRANE UNDER INTERNAL PRESSURE RE-163 N63-17671 16-33 CALCULATION OF PARTIAL VAPO ACID DURING VAPOR PHASE TRA UCRL-10886 COMMERCIAL AIRCRAFT - PRESSURE ALTITUDE OUTPUT TO TRANSPONDER OR ALTIMETER DISPLAY OPTIMUM ORBITAL TRANSFER USING SOLAR RADIATION PRESSURE THRUSTING DEVICE R63-SD30 R63-17766 16-29 CRITICAL BUCKLING PRESSURE CURVES FOR CYLINDERS OF FINITE LENGTH MITH SANOHICH MALLS FPL-07 R03-17915 16-33 CYLINDRICAL CHAMBER NASA-CR-51517 CALCULATION OF PARTIAL VAPO ACID DURING VAPOR PHASE TRA UCRL-10886 COMBUSTION PRESSURE OSCILLA BURNING PREMIXED OR UNMIXED F-63-2 CYCLIC MATERIAL DAMPING IN SPECIMENS OF MANGANESE-COPP AXIAL & INTERNAL PRESSURE L ASD-TOR-63-647 SOLIDS UNDER PRESSURE - X-R TEMPERATURE, DIELECTRIC COM	N63-21864	
RE-163 N63-17671 16-33 CHARACTERISTICS OF ALTITUDE COMPUTER SYSTEM FOR COMMERCIAL AIRCRAFT - PRESSURE ALTITUDE OUTPUT TO TRANSPONDER OR ALTIMETER DISPLAY OPTIMUM ORBITAL TRANSFER USING SOLAR RADIATION PRESSURE THRUSTING DEVICE R635030 CRITICAL BUCKLING PRESSURE CURVES FOR CYLINDERS OF FINITE LENGTH MITH SANOHICH MALLS FPL-07 N63-17915 16-33 CALCULATION OF PARTIAL VAPO ACID DURING VAPOR PHASE TRA UCRL-10886 COMBUSTION PRESSURE OSCILLA BURNING PREMIXED OR UNMIXED F-63-2 CYCLIG MATERIAL DAMPING IN SPECIMENS OF MANGANESE-COPP AXIAL & INTERNAL PRESSURE L ASD-TOR-63-647 SOLIDS UNDER PRESSURE - X-R TEMPERATURE, DIELECTRIC CON		22-11
COMMERCIAL AIRCRAFT — PRESSURE ALTITUDE OUTPUT TO TRANSPONDER OR ALTIMETER DISPLAY N63-17700 16-15 OPTIMUM ORBITAL TRANSFER USING SOLAR RADIATION PRESSURE THRUSTING DEVICE R63SD30 N63-17766 16-29 CRITICAL BUCKLING PRESSURE CURVES FOR CYLINDERS OF FINITE LENGTH HITH SANDWICH MALLS FPL-07 N63-17915 16-33 COMBUSTION PRESSURE OSCILLA BURNING PREMIXED OR UNMIXED F-63-2 CYCLIC MATERIAL DAMPING IN SPECIMENS OF ANGANESE-COPP AXIAL 6 INTERNAL PRESSURE L ASD-TOR-63-647 SOLIDS UNDER PRESSURE — X-R TEMPERATURE, DIELECTRIC CON		FURIC
OPTIMUM ORBITAL TRANSFER USING SOLAR RADIATION PRESSURE THRUSTING DEVICE N63-17766 16-29 CRITICAL BUCKLING PRESSURE CURVES FOR CYLINDERS OF FINITE LENGTH MITH SANDWICH MALLS FPL-07 N63-17915 16-33 SOLIDS UNDER PRESSURE - X-R TEMPERATURE, DIELECTRIC CON		23-07 DYDRS
PRESSURE THRUSTING DEVICE R63SD30 N63-17766 N63-17766 N63-17766 R63SD30 CRITICAL BUCKLING PRESSURE CURVES FOR CYLINDERS OF FINITE LENGTH MITH SANDWICH MALLS FPL-07 N63-17915 N63-17915 N63-17915 R63-17915 R6	GASEOUS PROPELLA N63-22439	
CRITICAL BUCKLING PRESSURE CURVES FOR CYLINDERS OF FINITE LENGTH MITH SANDWICH MALLS FPL-07 M63-17915 16-33 SOLIDS UNDER PRESSURE - X-R TEMPERATURE, DIELECTRIC CON	ER ALLOYS SUBJECT	
TEMPERATURE, DIELECTRIC CON	N63-22593	/ASABI
The Edward of the Marione at the State of th	STANT, CONDUCTIVE	TY, &
UCRL-10650 A COMART TABLE TRANSPORT N63-18056 16-20	N63-22982	DJ AE
ATMOSPHERIC QUANTITIES IN ROCKET TECHNOLOGY - COMPRESSIBLE FLUID UNDER PR DYNAMIC PRESSURE, DRAG, LIFT, AXIAL FORCES NASA-TN-D-1830		NE VE
SUITABILITY OF HIGH CHAMBER PRESSURES FOR LAUNCH CYLINDRICAL, SPHERICAL, AND WEHICLE ENGINES - EFFECTS ON THERMODYMANIC SUBJECTED TO INTERNAL PRESS	TORO-SPHERICAL S	HELLS
REFFICIENCY AND COMBUSTION STABILITY NASA-CR-50584 GREEN AND ADDRESS NAS-18488 NAS-18488 NAS-17-27	N63-23497	307
COMBUSTION INSTABILITY - RESPONSE OF SOLID PROPELLANT COMBUSTION ZONE TO MORMALLY INCIDENT AR VENTILATED LINING FOR P HELMET PPRC-MEMO-187	N63-23766	
OHE-DIMENSIONAL PRESSURE WAYES THE METAWARE TO THE MAN TO THE MAN THE MAN THE MAN THE METAWARE TO THE METAWARE THE MAN THE MAN THE MAN THE METAWARE THE MAN TH	WI-69-1015	AFC

MESSURE APPARATUS
CONTROLLING FACTORS IN CHOICE OF METERED DXYGEN
FLOW AND RESERVOIR CAPACITY IN PRESSURE
ECONOMIZER SYSTEMS
FREC/MEND-176
M63-11772
04-16

7-12

8-14

0-11

ER 0-33

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1-11

14

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25

13

23

15

PRESSURE DEPENDENCE OF THE ETTINGSHAUSEN-NERNST EFFECT AND THERMOELECTRIC POWER IN ZINC WITH SOLID HYDROGEN AS PRESSURE TRANSMITTING MEDIUM ARDO-1379-10 M63-14054 09-23

UNSUITABILITY OF FIREMEL /TILT VALVE/ OXYGEN REGULATORS FOR USE IN PRESSURE ECONOMIZER SYSTEM FPRC/MEMO-190 N63-20110 20-16

MESSURE BROADENING
BROAD-BAND HIGRONAVE SPECTROMETER - PERFORMANCE &
USE IN MEASURING ATTENUATION, REPLECTION, AND
PRESSURE BROADENING OF MOLECULAR TRANSITIONS
NO3-23404 24-15

DETERMINATION OF BODY SHAPES OF MINIMUM DRAG USING NEWTON AND BUSEMANN PRESSURE LAWS. N63-13833 09-20

NEWTONIAN SLENDER-BODY THEORY OF FLOW AROUND MINIHUM DRAG SHAPES N63-13834 09-20

SLENDER BODY DRAG REDUCTION IN HYPERSONIC FLOW WITH NEWTONIAN PRESSURE COEFFICIENT DISTRIBUTION AND VARIABLE FRICTION COEFFICIENT

NOSE PRESSURE-DRAG COEFFICIENT OF TRUNCATED BODIES
OF REVOLUTION IN SUPERSONIC FLOW
NOLTR-42-11 N63-14827 11-02

MERCURY CAPSULE HEAT SHIELD - HEAT TRANSFER AND PRESSURE COEFFICIENTS AT SUPERSONIC SPEEDS N63-20537 20-32

PRESSURE DISTRIBUTION ON FLAT PLATE BY SUPERSONIC ROCKET JETS EXHAUSTING INTO FREE STREAM FLOW MASA-TN-D-1507 N63-10206 01-11

PROPELLER SLIPSTREAM EFFECTS AS DETERMINED FROM WING PRESSURE DISTRIBUTION OF A LARGE-SCALE SIX-PROPELLER VTOL MODEL AT STATIC THRUST MASA-TN-D-1509 41 22222 20 2022 N63-10533 01-04

HEAT TRANSFER AND PRESSURE DISTRIBUTIONS ON A HEHISPHERE-CYLINDER AND A BLUFF-AFTERBODY MODEL IN METHANE-AIR COMBUSTION PRODUCTS AND IN AIR MASA-TH-D-1903

LOCAL PRESSURE DISTRIBUTION ON A BLUNT DELTA WING NASA-TN-D-1554 02-03

HEAT TRANSFER AND PRESSURE ON A FLAT PLATE AND ON PROTUBERANCES IN A SUPERSONIC TURBULENT BOUNDARY LAYER AT MAGH 2.65, 3.51, AND 4.44
NASA-TN-D-1372
N63-10991 02-13

METHOD FOR PREDICTING THE PRESSURE DISTRIBUTION ON THE CONICAL PORTION OF A SPHERE-CONE M63-11006 03-02

FREE FLIGHT MEASUREMENTS OF PRESSURE DISTRIBUTION AT TRANSONIC AND SUPERSONIC SPEED ON BODIES OF REVOLUTION HAVING PARABOLIC AFTERBOOIES ARC-REM-3290 04-00

FLOW FIELD & PRESSURE DISTRIBUTION MEASUREMENTS ON BLUNT-MOSE BODIES - SONIC LINE, BOW SHOCK WAVE SHAPE, STANDOFF DISTANCE ARC-CP-615 M63-12093 05-02

PRESSURE DISTRIBUTION AT SUPERSONIC SPEED OF SWEPTBACK WING AIRCRAFT MODEL AT COMBINED ANGLES OF ATTACK AND SIDESLIP - TABULATED DATA MASA-RENO-10-15-58L M63-12497 06-02

PRESSURE STUDY OF SCALE MODEL XSN-64A NAVAHO

MISSILE AND BOOSTER AT SUPERSONIC SPEEDS MASA-TH-X-17 M63-12549 06-02

THRUST CHARACTERISTICS AND PRESSURE DISTRIBUTION
OF CONVERGENT-DIVERGENT NOZZLES
NASA-TM-X-83
N63-12554
06-02

PRESSURE DISTRIBUTION ON X-15 AIRCRAFT MODEL MASA-TH-X-275 MASA-TH-X-275

PRESSURE DISTRIBUTIONS AND AERODYNAMIC COMPANIES OF SPOILER-TYPE CONTROLS ON TRAPEZOIDAL WING AT SUPERSONIC SPEED NACA-RM-L56E22

PRESSURE DISTRIBUTIONS OVER FORWARD PORTION OF PROJECT FIRE SPACE-VEHICLE CONFIGURATION AT SUBSONIC SPEED NASA-TH-0-1612 N63-12990 07-02

HEAT TRANSFER AND PRESSURE DISTRIBUTION IN SHOCK MAYE TURBULENT BOUNDARY LAYER INTERACTION REGIONS SH-42567

PRESSURE DISTRIBUTION ON IMPULSIVELY ACCELERATED SUPERSONIC WEDGE AS INSIGHT TO FLOW FIELDS OF MISSILE AND SPACECRAFT FLIGHT

WIND TUNNEL TEST RESULTS ON AGARD MODEL A - DRAG, BASE PRESSURE, PRESSURE DISTRIBUTIONS, SKIN PRICTION DRAG, LIFT AND PITCH MOMENT M63-13509 08-02

HYPERSONIC WIND TUNNEL TEST - AGARD MODEL E, HEAT TRANSFER, PRESSURE DISTRIBUTION, SHOCK MAVES AND HENISPHERE NO3-13514 06-02

MAXIMUM CROSS SECTIONAL AREA EFFECT ON DELTA WING MAYE DRAG AND PRESSURE DISTRIBUTION ARC-CP-606 N69-13541 08-03

SURFACE PRESSURE DISTRIBUTION ON FLAT PLATE BY COLD AIR JET AND CYLINDRICAL ROD MASA-TH-0-1629 M

DETAILED PRESSURE DISTRIBUTION AND HEAT TRANSFER RESULTS ABOUT A CIRCULAR CYLINDER AT ZERO ANGLE OF ATTACK MITH VARIOUS MOSE SHAPES NAS-14178 09-02

PRESSURE DISTRIBUTIONS ON 3 RIGID WINES SIMULATING PARAMINES WITH VARIED CAMPPY CURVATURE AND LEADING EDGE SWEEP AT MACH 2.29 TO 4.65 MASA-TH-D-1618 183-1428 10-03

STREAMLINES ON SPHERE-CONE AT ANGLE OF ATTACK IN SUPERSONIC FLOW FROM MEASURED SURFACE PRESSURE DISTRIBUTION ARRODYMANICS RES. REPT.-189 30 483-15176 311-11

HEAT TRANSFER & PRESSURE DISTRIBUTION ON HYPER-VELOCITY BALLISTIC VEHICLE - DATA RELATED TO TURBULENT BOUNDARY LAYER - FLUID NECHANICS SN-41379-2 M63-15603 12-13

TEMPERATURE, VELOCITY, AND PRESSURE DISTRIBUTIONS IN STRUCTURE OF GASEOUS DETONATION WAVE 863-15704 12-13

VELOCITY AND PRESSURE DISTRIBUTION FOR UNSTEADY MOTION IN THREE-DIMENSIONAL VORTICES - NAVIER-ASTOKES EQUATION

ARAP-50 13-11
ENTROPY-LAYER THEORY FOR PRESSURE DISTRIBUTION IN

ENTADPY-LAYER THEORY FOR PRESSURE DISTRIBUTION IN HYPERSONIC FLOW FIELD RAD-TH-62-79 N63-16025 15-11

EFFECT OF AIR BLEED ON HEAT TRANSPER AND PRESSURE DISTRIBUTION ON CONICAL FLARES AT SUPERSONIC SPEEDS NASA-TH-X-A39

HEAT TRANSFER AND PRESSURE DISTRIBUTION OVER REENTRY CONFIGURATION FOR FIVE-STAGE SCOUT VEHICLE MASA-TH-D-1790 N63-16294 13-30

PRESSURE DISTRIBUTION EFFECTS ON AERODYHAMICARIS

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05-16

05-16

	STABILITY AND HEATING OF FLIGH	WENTCLES M63-16317	13-02	RAREFIE PRESSUR EDGE OF
	LINEARIZED PRESSURE DISTRIBUTE SUPERSONIC ENTROPY LAYER		0 40	HELICON
	ARAP-44	N63-16841		CHARACT
	SHOCK MAVE GENERATOR - HEAT TR DISTRIBUTION - SURFACE TEMPERA TRAJECTORY PIBAL-437	TURE AND REENT	TRY	SURFACE MODELS NASA-TH
	DELTA WINGS AT SUPERSONIC SPEE RECOVERY TEMPERATURE, AND PRES FFA-93	D - HEAT TRANS	FER,	NOISE P BOOSTER NASA-TH
	CENTER-LINE PRESSURE DISTRIBUT DIMENSIONAL BODIES NASA-TN-0-1793	TON ON TWO- N63-17301	tifriis - a Caus	STATIC SETBACK ANALOGY
	DRAG AND PRESSURE DISTRIBUTION MACH 1-41 ON THIN CONICALLY-CA OF 30-DEG SEMI-VERTEX ANGLE	MEASUREMENTS	AT IC CONE	STATIC SURFACE
	ARC-REM-3306 FREE HOLECULAR HYPERSONIC FLOW		16-02 06E 0F	NASA-TH
50	FLAT PLATE - PRESSURE, SHEAR D	ISTRIBUTION A	ID HEAT	DISTRIB
	RM-2553-PR	N63-17531	16-20	NASA-TR
	PRESSURE DISTRIBUTION CALCULAT ROTATING BODIES WITH AXISYMMET SUBSONIC FLOW USING APPROXIMAT DVL-276	RIC SUPERSONI	AND	PRESSURE OF EFFECT PROPELL
	PRESSURE DISTRIBUTION ON MODEL CAPSULE AT MACH 1.60 TO 6.01	S OF PROJECT P	MERCURY	NASA-TN HEAT-TR
	NASA-TH-X-336	N63-17994	Chine di Mi	FORCED- UNIFORM
	MATERIAL REMOVAL BY EXPLOSIVES DISTRIBUTION-TIME DEPENDENCY I ADR-07-13-62-1	- PRESSURE N DETONATION / N63-18098		DECOMPR
	PRESSURE DISTRIBUTION ON BLUNT ANGLES OF ATTACK TO 90 DEG AND CONTROL OF WINGED REENTRY VEHI NASA-TN-D-1954	DELTA WINGS A MACH 6.85 FOR CLES	LIFT	PRESSUR WIRE WR TURBULE
	PRESSURE DISTRIBUTION ON FLAT SUPERSONIC JET EXHAUSTING NORM SECOND JET INTERFERENCE FOR DI NASA-TN-D-1935	AL TO SURFACE RECTIONAL CONT	ROL	HW-6517 HIGH PO PRESSUR MEASURE
	AERODYNAMIC HEAT TRANSFER 6 PR ON BLUNT BODIES AT HYPERSONIC	ESSURE DISTRIE	NTION	BIBLIO
	BIBLIOGRAPHY 58-62-61	N63-18212	17-02	LAYER B
	EXACT SOLUTIONS TO EQUATIONS G TEMPERATURE, AND PRESSURE DIST DETONATION WAVES - GAS DYNAMIC	RIBUTIONS IN G S	ASEOUS	BIBLIOG AND BEN
	FORCE AND PRESSURE DISTRIBUTION	DATE THAT PILE		BIB-7/S
	UNDERGOING FORCED HARMONIC OSC SURFACE	ILLATIONS ON F	REE	PRESSURE E DEFORMA
	PRESSURE DISTRIBUTION MEASUREM			UNDER A PRESSUR SURI-TR
	PROFILE WITH LEADING EDGE SLOT	STAND ON A YELD	10.13v	GENERAL
	WANTED - SATITUDA TRUDISHEM	M63-19998	MOTE	PRESSUR
	PRESSURE DISTRIBUTION MEASUREM *LOW IN A FREE JET ON AIRFOIL : AVA-62-01 *** 380223A*** 803 ****	SECTION		GUINEA BLASTS OVERPRE
	ELLIPTICAL CONE - PRESSURE DIS STREAMLINES, AND SHOCK WAVE SHO OF ATTACK AT MACH 10	TRIBUTION, FLO	GLES	DASA-13 ESTIMAT
-	AEDC-TDR-63-163TA 2 146.12 16.15	N63-20337	20-02	OVERPRE DASA-13
	PRESSURE DISTRIBUTION MEASUREMS COMPRESSOR INLETS - SINGLE, TRA PROBES	AVELING, & MUL	TIPLE	PRESSUR OF ATLA
	HYPERSONIC RING SHOCK GENERATOR	RS - HEAT TRAN	SFER,	DASA-13

PRESSURE DISTRIBUTION, & LIFT-DRAG RATIO

RAREFIED GAS DYNAMICS - SURFACE PRESSURE DISTRIBUTION IN NEIGHBOI EDGE OF THIN FLAT PLATE	PRESSURE & PRHOOD OF LEAR N63-21606	1 TOT
HELICOPTER ROTOR BLADE CHOROWISE DISTRIBUTION AND TWO-DIMENSIONAL CHARACTERISTICS	AIRFOIL	22-04
SURFACE PRESSURE DISTRIBUTION ON MODELS OF PROPOSED PROJECT FIRE NASA-TN-D-1961	0.0628 SCALI SPACE VEHICLE N63-21892	ES 22-31
NOISE PRESSURE LEVEL DISTRIBUTION BOOSTERS DURING LAUNCHING NASA-TM-X-50472	8 BY SATURN N63-21910	22-23
STATIC PRESSURE DISTRIBUTIONS ALI SETBACK PLATE WITH ATTACHED JET I ANALOGY	ONG INCLINED USING HYDRAU	LIC
RG-TR-63-15	N63-22457	23-11
STATIC LONGITUDINAL AERODYNAMIC OF SURFACE PRESSURE DISTRIBUTIONS OF VEHICLE MODEL	F FOUR-STAGE	SCOUT
NASA-TN-D-2026	N63-22945	23-02
REYNOLDS NUMBER EFFECT ON INVISC DISTRIBUTIONS & SHOCK SHAPES OF WITH DIFFERENT NOSE SHAPES & DRAI NASA-TR-R-182	ID PRESSURE CYLINDRICAL COEFFICIEN N63-23686	8001ES TS 24-02
ESSURE DROP EFFECT OF COMPOSITION ON COMBUST PROPELLANTS DURING A RAPID PRESSI NASA-TN-0-1559	URE DROP	02-26
HEAT-TRANSFER COEFFICIENT AND PR FORCED-CONVECTION BOILING OF N-BI UNIFORMLY HEATED TUBE UCRL-10527	UTANOL IN	FOR
DECOMPRESSION SICKNESS DUE TO PRI PRESSURIZED CABIN OR SPACE CAPSU	ESSURE DROP	IN
269-20317 20-3	N63-18942	1848
WIRE WRAPPING EFFECT ON PRESSURE TURBULENT FLOW THROUGH ROD BUNDLE HW-65173-REV MALE VALLE WOLLDON	E ASSEMBLIES	18-11
HIGH POWER MICROWAVE TUBE COOLING PRESSURE DROP, BURNOUT, AND WALL MEASUREMENTS	BY VORTEX TEMPERATURE	FLOW -
RADC-TDR-63-242 A HD MITTURERIA	N63-19534	19-13
BIBLIOGRAPHY - PRESSURE LOSSES IN AND BEND-DIFFUSER COMBINATION IN LAYER BEHAVIOR	BENDS, DIF	FUSERS DARY
BIS-7H VOUSSILES ARLUS AND A SEE	N63-20052	19-11
AND BEND-DIFFUSER COMBINATIONS IN	C PRESSURE D	NDARY
BIB-7/SUPPL./	N63-20053	19-02
ESSURE EFFECT DEFORMATIONS AND STABILITY OF SPI UNDER ACTION OF CONCENTRATED LOAD PRESSURE	HERICAL SHEL	LS RM
SURI-TR-834/11/ NO. 4	N63-10113	01-33
GENERAL INSTABILITY OF CIRCUMPER SANDWICH SHELLS SUBJECTED TO UNIT PRESSURE	FORM EXTERNAL N63-10700	02-33
GUINEA PIG TOLERANCE OF SHOCK TU BLASTS - EFFECTS OF BODY ORIENTA' OVERPRESSURE DURATION	SE GENERATED	-27A(0)
DASA-1312	N63-12238	05-16
	ATR BLAST	

SURE DISTRIBUTION ON 0.0628 SCALE DOPOSED PROJECT FIRE SPACE VEHICLES N63-21892 2 THE LEVEL DISTRIBUTION BY SATURN LING LAUNCHING SURE DISTRIBUTIONS ALONG INCLINED TE WITH ATTACHED JET USING HYDRAULIC N63-22457 TUDINAL AERODYNAMIC CHARACTERISTICS & SURE DISTRIBUTIONS OF FOUR-STAGE SCOUT BER EFFECT ON INVISCID PRESSURE IS & SHOCK SHAPES OF CYLINORICAL BODIES INT NOSE SHAPES & DRAG COEFFICIENTS DURING A RAPID PRESSURE DROP R COEFFICIENT AND PRESSURE DROP FOR CTION BOILING OF N-BUTANOL IN EATED TUBE N SICKNESS DUE TO PRESSURE DROP IN CABIN OR SPACE CAPSULE N63-18942: 18-16 G EFFECT ON PRESSURE DROP FOR AXIAL ON THROUGH ROD BUNDLE ASSEMBLIES AICRDWAVE TUBE COOLING BY VORTEX FLOW -H63-19534 - PRESSURE LOSSES IN BENDS, DIFFUSERS FUSER COMBINATION INCLUDING BOUNDARY N63-20052 19-11 - PRESSURE LOSSES IN BENDS, DIFFUSERS FUSER COMBINATIONS INCLUDING BOUNDARY N63-20053 1 19-02 AND STABILITY OF SPHERICAL SHELLS OF CONCENTRATED LOADS AND UNIFORM N63-10113 ABILITY OF CIRCUMPERENTIALLY STIFFENED LLS SUBJECTED TO UNIFORM EXTERNAL N63-10700 02-33 TOLERANCE OF SHOCK TUBE GENERATED AIR SECTS OF BODY ORIENTATION AND DURATION TION OF HUMAN TOLERANCE TO AIR BLAST ESSURES BASED ON ANIMAL STUDIES N63-12239 E TESTS ON GUINEA PIGS EXPOSED TO EXPLOSION AS MISSILE N63-12240 INSTANTANEOUS AND CREEP BUCKLING OF OUT-OF-ROUND TUBES UNDER EXTERNAL PRESSURE

2-04

2-31

2-23

C 3-11 COUT 3-02 DIES 4-02

2-26

8-16 Ü 8-11 OW -

9-13 SERS 9-11 SERS 9-02

1-33 EHED 2-33 IR

-16

-16

HOT

-16

ID

ii. 9-13

ONE-3544 FOR 144 TO 100	OF CHAPMAN-JOUQUET DETONATION IN FINITE MASS OF
ENERGY EXCHANGE BETWEEN COLD GAS MOLECULES AND HOT TUNGSTEN SURFACE - PRESSURE DEPENDENCE OF MOLECULE	HIGH EXPLOSIVE ADJACENT TO RIGID WALL LAMS-2002 16-23
ADSORPTION AND DESORPTION N63-12420 06-23	THERMODYNAMIC PROPERTIES OF POLYETHYLENE OVER TEMP RANGE TO 6000-DEG K AND PRESSURES TO 1 HILLION
THERMODYNAMIC PROPERTIES OF MITROGEN FROM 64-DEG TO 300-DEG K BETWEEN 0.1 AND 200-ATMOSPHERES MS-TN-129 M63-12472 06-23	RH-3709-PR
The second secon	THERMOCONDUCTIVITY OF STEAM UNDER PRESSURE
EFFECT OF PRESSURE LEVEL ON AFTERBURNER WALL TEMPERATURE NACA-RM-E58DO1 N63-12515 06-27	SQUID PROJECT N63-19167 18-13
Part School Develop in the Company of	ELASTIC MOTION AND PLASTIC BUCKLING OF CYLINDRICAL
EFFECT OF PRESSURE ON ENERGY LEVELS OF IMPURITIES IN SEMICONDUCTORS - SILICON & GERMANIUM NO3-13346 08-25	SHELL UNDER NEARLY UNIFORM RADIAL IMPULSE - PRESSURE EFFECTS POULTER LABSTR-001-63 N63-19457 19-33
	on the sun death least which professionary supports of the
EFFECT OF PRESSURE ON ARSENIC, INDIUM, & ALUMINUM IN SILICON N63-13347 08-25	ELASTIC CYLINDRICAL SHELL UNDER NEARLY UNIFORM RADIAL IMPULSE - PRESSURE EFFECT N63-19458 19-33
EFFECT OF PRESSURE ON GOLD IN SILICON	A COURT OF THE PROPERTY AND A
N63-13348 08-25	BUCKLING OF VERY THIN CYLINDRICAL SHELL DUE YO AN IMPULSIVE PRESSURE N63-19459 19-33
N63-13349 08-25	MELTING PROPERTIES OF SILVER MITRATE TO 10,000 ATM
THERMODYNAMIC FUNCTIONS FOR CARBON DIOXIDE IN THE RANGE 40-DEG C TO 1000 DEG C AND 1 BAR TO 1400	PRESSURE NAA-SR-8422 N63-19741 19-07
BARS PRESSURE UCRL-7168 N63-13614 08-23	PRESSURE TRANSIENT EFFECT ON BURNOUT IN PODL BOILING OF WATER N63-20072 20-23
PRESSURE INDUCED SHIFTS OF INFRARED LINES DUE TO	EFFECT OF HIGH PRESSURE ON AUSTENITE TO PEARLITE
PRESSURE INDUCED SHIFTS OF INFRANCE LINES DUE TO POLAR MOLECULES AFCRL-63-231 N63-13667 08-23	REACTION ASD-TDR-62-479, PART I N63-20294 20-18
THERMAL AND PRESSURE-INDUCED STRESSES IN THICK.	EFFECT OF HIGH PRESSURE ON TRANSFORMATION IN IRON
HERMAL AND PRESSURE-INDUCED STRESSES IN THICK, BLUNT-NOSED SHELLS OF REVOLUTION OF ONE OR TWO LAYERS OF CONSTANT THICKNESS	AND IRON ALLOYS ASD-TDR-62-479, PART II
GASL-TR-284 N63-13701 08-33	DY COZE SHEDINGSY VAN-K ONA MADIATRON BADITRO
TIME LAG OF SPARK FORMATION IN AIR AND IN VACUUM -	SHORT TIME TENSILE PROPERTIES OF GRAPHITE AT VARIOUS ATMOSPHERIG, ANNEALING, AND ARGON PRESSURES
SEPARATION	WADD-TR-61-72, VOL. 14 30160 801 N63-20415 20-19
PRESSURE DEPENDENCE OF THE ETTINGSHAUSEN-MERNST EFFECT AND THERMOELECTRIC POWER IN ZINC WITH SOLID	PATTERN & PROPERTIES OF FLOW AROUND VEHICLE BASED ON IDEAL GAS BEHAVIOR UNDER VARIABLE SPECIFIC
HYDROGEN AS PRESSURE TRANSMITTING MEDIUM AROD-1579-10 N63-14054 09-23	HEATS & REDUCED PRESSURES R-8 M63-20501 20-11
CHANCE VOUGHT HYPERVELOCITY WIND TUNNEL TEST -	STRESS ANALYSIS AT SEVERAL JUNCTIONS OF
FORCE, DYNANIC STABILITY, PRESSURE, HEAT TRANSFER, ROCKET EXHAUST EFFECT N63-15184 11-10	PRESSURIZED SHELLS WAYNE ME PUR N63-20510 7 20-33
SINUSBAROPATHY - AILHENT CAUSED BY BAROMETRIC	TOTAL-PRESSURE DISTORTION & RECOVERY OF SUPERSONIC NOSE INLET WITH CONICAL AFTERBODY IN SUBSONIC
VARIATION - PHYSIOLOGICAL EFFECTS OF PRESSURE N63-16210 13-16	ICING CONDITIONS MACA-RM-E57G09 M63-20525 20-33
STRENGTH AND DUCTILITY OF ROCKS UNDER CONFINING	COLLAPSE OF CYLINDERS AND CONES BY EXTERNAL
PRESSURE - STRUCTURAL DYNAMICS N63-16621 14-33	PRESSURE - TIME PREDICTION AND PROBABLE ERROR ARL-63-132 M63-20746 21-33
SPECIFIC HEAT AT CONSTANT VOLUME OF PARA-HYDROGEN	ELECTRICAL COMMETTATTY OF MANTIN OFTER AS
AT TEMPERATURES FROM 15 TO 90-DEG K AND PRESSURES TO 340 ATM	FUNCTION OF TEMPERATURE AND PARTIAL PRESSURE OF
NBS-R-270 21 N 7 M 3 PL C A 3 M B 3 LZ MARY - N63-16605 1 14-23	AEET/CO/13 03 072 10 7710 400 784 1863-20994 18 21-25 17
ROCKET ENGINE ABLATIVE MATERIAL PERFORMANCE AFTER POST-RUM COOLING AT SIMULATED ALTITUDE PRESSURES	DIFFERENTIATION OF OUTGASSING AND EVAPORATION PRODUCTS OF MATERIALS ON EXPOSURE TO REDUCED
NASA-TN-D-1726 N63-16688 14-13	PRESSURES NASA-TH-X-50413 NASA-TH-X-50413 NASA-TH-X-50413
DEFORMATIONS AND STABILITY OF SPHERICAL SHELLS	THE SHOW OF THE PARTY OF THE PA
UNDER ECCENTRIC CONCENTRATED LOADS AND UNIFORM PRESSURE	ABLATIVE PROPERTIES OF MOLDED FISER REINFORCED PAMELS - PRESSURE EFFECT M63-21393 22-19
SURI-TR-834-6 15-33	EFFECT OF RESISTANCE TO INSPIRATION ON BREATHING
GROUND PRESSURE EFFECT & SONIC BOOM OF FAIREY DELTA 2 AIRCRAFT IN SUPERSONIC FLIGHT	UNDER INCREASED PRESSURE - SPACE BIOLOGY N63-21524 22-14
ARC-REN-3296 M 450121 190 - 250 M 163-17121 2.15-04	LOAD TEST OF ORTHOTROPIC CYLINDRICAL SHELLS UNDER
EFFECT OF UNIFORM EXTERNAL PRESSURE ON BOUNDARY OF GEOMAGNETIC FIELD IN STEADY SOLAR WIND	PIBAL-668 TO COLLAPSE M63-22027 22-33
TO 2341 TORY SYAN ROOMS - THE N63-17160 15-26	HYDRODYNAMIC PROCESSES IN PSEUDO-CONBUSTIBLE LAYER
SULTABILITY OF HIGH CHAMBER PRESSURES FOR LAUNCH VEHICLE ENGINES - EFFECTS ON THERMODYNAMIC	OF SOUTO PARTICLES UNDER HIGH PRESSURE TIL/T-5352 M63-22467 23-11
REFFICIENCY AND COMBUSTION STABILITY NASA-CR-50504 N63-1848B 17-27	PRESSURE DEPENDENCE OF IONIZATION BY RELATIVISTIC

ELECTAONS	N63-23244	24-23	ARL-63-8
PRESSURE FIELD EFFECTS OF DSCILLATING PRESSUR PROPELLANT COMBUSTION AND MEA	RE FIELD ON SO	LIO	FLOW INT ADVERSE PARAMETE
ENTROPY WAVES AERONAUTICAL ENG. REPT635A	N63-14098	09-26	MASA-CR-
TANTONING WAS ASSESSED TO SHEET SHEE		T. MALY	LINEARIZ
PRESSURE FIELD	N63-16082	13-33	PRESSURE GASL-TR-
MEASUREMENTS OF PRESSURE SPACE	E-TIME COVARIAN JETS - MEAN I DWER SPECTRA		PRESSURE DYNAMICS
NASA-CR-50585	N03-18234	17-11	PRESSURE ME MEASUREM
CF IONIZATION GAUGE	-100-41	ENT OF	SPARK-HE AEDC-TOR
VERY LOW PRESSURES	N63-10551	01-15	SPECTROS
INCLINED PISTON DEADWEIGHT PRI	ESSURE GAUGE		JPL-TR-3
BH-RI-6149	N63-11961		HATCHING PRANDTL-
METAL DIAPHRAGM PRESSURE RELAY VAPOR PRESSURES - TESTED WITH BM-RI-6212	ARSENIC III O	ASURE KIDE 10-15	FOR HYPE
MEASURING DEVICES FOR INTERMIT	STRAIN GAUGES .	IC	FUSELAGE NACA-RM-
PRESSURE GAUGES OVL-182	N63-14423	10-15	BASIC PRI
PRESSURE GAUGE CALIBRATOR SIM	LATION OF HAGI	ITUDE UBES	AT TRANS
AND WIND TUNNELS NOLTR-62-218	N63-14627	10-15	CALIBRAT
PRESSURE EXERTED BY SHOCK WAVE	S IN SOLID ME	DIA - ED TO	AEDC-TOR-
HEADURE SHULK AND FREE SURFACE	N63-19134	18-25	PRESSURE EFFECTS RADIATIO
HANDHETERS - PRESSURE GAUGES I	OR SUBSONIC WI	TNO 21-15	AEDC-TOR-
PRESSURE-PULSE GENERATOR FOR C PRESSURE GAUGES		DOLLDEN DOALS	PRESSURE CONFIGURA MACH NUM
BALLISTICS RES. REPT109			ARC-CP-6
PRESSURE GRADIENT STABILITY OF VISCOUS FLOW BETW CYLINDERS - PRESSURE GRADIENTS	EEN ROTATING		APPARATU
TVE VELEBOOK IN PROPERTY OF STREET	N63-11298	03-11	THERMAL ELASTOHY
PRESSURE FLUCTUATIONS IN A WEA	K TURBULENT FI	ELO	MTI-62TR
TERRITARIAN YA 2400 A OKA 2	N63-11461	03-11	BIBLIOGR
IMPACT PROBE METHOD TO MEASURE IN TURBULENT BOUNDARY LAYER OF	LOCAL SKIN FE	MACH	NBS-HONO
NUMBERS & PRESSURE GRADIENTS DRL-498	N63-12165		PRESSURE NONEQUIL
THE WAS AVELTAT SARESSINE SARE SHIP	TARSHET OF ME	1172403	R635D13
APPROXIMATION METHOD FOR MEASU PRESSURE GRADIENTS AND DENSITY UNSYMMETRICAL OBJECTS USING SC	DISTRIBUTION	IN	PRESSURE FACE OF I
MAXIMUM RATE OF BURNING OF POT PRESSURE VARIATION - EXPLOSIVE		UNDER	DISCUSSIO
TIL/T-5390	M43-13444	08-07	AGARD 16
THEORIES OF COMPRESSIBLE TURBU SKIN FRICTION WITH ZERO PRESSU EXPERIMENTAL RESULTS NASA-TN-0-1795		***	CALIBRAT 10 MINUS CALIBRAT
NASA-TN-0-1795	N63-14278	10-11	NASA-TN-
HYDROMAGNETIC STAGNATION-POINT ARBITRARY PRESSURE GRADIENT AN NASA-TN-D-1703			LAMINAR I
COMPRESSIBLE LAMINAR BOUNDARY ARBITRARY PRESSURE AND TEMPERA ASD-TOM-62-962	LAYER LINDER	SONOTH	PIEZOCER/ PRESSURE REFLECTE! NASA-CR-

PRESSURE GRADIENT AND HEAT TRANSPER OVER CIRCULAR CYLINDER AT HYPERSONIC SPEED

0-1628

SUBJECT INDEX 1 551 . 58 N63-18019 ERFERENCE CAUSED BY SECONDARY INJECTION IN PRESSURE GRADIENT NOZZLES - BOUNDARY LAYER IN INVESTIGATIONS N63-19939 19-82 ED VISCOUS-FREE HIXING WITH STREAMWISE N63-21265 HILL & ADIABATIC ELLIPSE IN MAGNETOGAS N63-23516 24 ASUREMENT ENTS OF PRESSURE AND FLOW SPEED IN A N63-10132 COPIC TEMPERATURE AND PRESSURE MEASUREMENT ENUS ATMOSPHERE N63-10245 CONDITIONS FOR THE MODIFIED NEWTONIAN, NEVER EXPANSION AND PRESSURE ESTIMATION RSONIC FLOW OVER BLUNT BODIES D PRESSURE MEASUREMENTS ON SEVERAL CAMOPY-CONFIGURATIONS AT LOW SUPERSONIC SPEEDS ESSURE MEASUREMENTS ON 0.0667-SCALE NORTH AMERICAN X-15 RESEARCH AIRCRAFT ONIC SPEEDS N63-12560 06-04 ION OF PRESSURE TRANSDUCER SYSTEM FOR PRESSURE MEASUREMENTS N63-13424 MEASUREMENT IN ULTRA-HIGH VACUUM - OF ADSORPTION, OUTGASSING, STREAMING AND MEASUREMENTS ON CONE-CYLINDER-FLARE ATION AT SHALL INCIDENCES FOR FREE STREM BER OF 6.8 N63-13849 ITY FLUID DYNAMICS PRESSURE MEASUREMENT S REVIEW N63-14394 10-ANALYSIS AND PRESSURE HEASUREMENT IN DRODYNAMIC LUBRICATION N63-14815 11-13 APHY AND INDEX OF VACUUM AND LOW PRESSURE GRAPH-35

THEATTE JON N63-14845 11-15 MEASUREMENTS ON BLUNT FLATPLATE WITH IBRIUM FLOW FIELD N63-15103 AND HEAT-TRANSFER MEASUREMENTS OF FLAT BLUNTED 10 DEG HALF-CONE BODY OR SEMIDISK 1 14 12 A 19 14 N63-15507 12-B

16-63

21-11

24-24

01-13

01-29

03-03

63%

II-

.

.

A

S

PRES

PI CI PI

AN AN

AC PL

EV ME PR

FL

SH

ON OF WIND TUNNEL PRESSURE MEASUREMENT

ION OF THERMOCONDUCTIVITY VACUUM GAUGE TO 4 TORR BY MEANS OF VOLUME-RATIO ION SYSTEM - PRESSURE MEASUREMENTS 14-17 N63-16669

PRESSURE HEASUREMENT 16-11 N63-17775

PIEZOCERAMIC PRESSURE TRANSDUCERS FOR SHOCK TUBE PRESSURE MEASUREMENT — SHOCK MAYE PROFILES OF REFLECTED MAYES, THICKNESS AND CURVATURE NASA-CR-50495 N83-10139 16-1 16-11

DEVELOPMENT OF PRESSURE TRANSDUCER FOR PRESSURE MEASUREMENT IN HYPERVELOCITY WIND TUNNEL TESTING

-03

TH YER -02

-11 -24

-13 ENT

1-03 10Y-15 1-02

1-04

9-15

9-23

9-02 T -0-24

1-13 URE 1-13

1-00 17 15x 12-13 12-41 10 14-17 47 16-11

16-11

AEDC-TOR-63-135 AT-MELES THE MEDICAL	N63-18749	17-02 PF	RESSURE RATIO AUTOMATIC PRESSURE RATIO INDICATOR FOR WIND
PRESSURE EXERTED BY SHOCK MAVES OFTICAL, ELECTRICAL AND X-RAY TO MEASURE SHOCK AND FREE SURFACE N	CHNIQUES USED	A-To	ARL/A-196 N63-11043 03-1
POULTER LABS. TR-002-63 HEASUREMENT OF ATMOSPHERIC DENSIAND PRESSURE AT MODMERA ON MARCH	N63-19134	RE.	BASE HEAT TRANSFER, PRESSURE RATIOS, AND CONFIGURATION EFFECTS ON SATURN C-1 MODEL AT MACH 0.1 TO 2.0 MASA-TH-D-1346 NA3-16159 12-30
FALLING SPHERE METHOD	STAR RELITED FOR	ENT.	MESSINE RECOVERY BY HOT CUA SJEAT CA THE WE SET STATE IN
THREE-VENT PROBE FOR MEASURING I AND TEMPERATURE - MEASURING APP	ARATUS	05×20	PRESSURE RECOVERY AND MASS FLOW OF RECTANGULAR MULTI-SHOCK AND ISENTROPIC EXTERNAL COMPRESSION INTAKES AT MACH 2.9 ARC-CP-630 N63-13648 09-11
ELECTRICAL PRESSURE RECORDER - I	MEASURING N63-20185	20-15	EFFECT OF BOUNDARY LAYER REMOVAL ON TOTAL PRESSURE RECOVERY - CIRCULAR INTERNAL COMPRESSION INLETS WITH TRANSLATING CENTERBOOTES
SUPERSONIC WIND TUNNEL PRESSURE		21-15	MASA-MENO-2-19-59A 415-104 at A M63-13883 09-02
TRANSIENT PRESSURE MEASURING MET LIQUID PROPELLANT ROCKET COMBUST MASA-CR-51515	HODS APPLIED	100	PRESSURE RECOVERY IN ADJUSTABLE SUPERSONIC INLET COMBINED MITH J34 TURBOJET ENGINE UP TO MACH 2.0 NACA-RH-E54H11 N63-13987 09-27
RELIABLE HYPERSONIC MIND TUNNEL TEMPERATURE MEASUREMENT INSTRUME ARL-63-162	PRESSURE AND	AMI E	AXISYMMETRIC EXTERNAL COMPRESSION DOUBLE COME INLET - MACH 3 TO 0.0 - PRESSURE RECOVERY, MASS PLOW RATIO, COML PRESSURE AND ADDITIVE DRAG MASA-TM-X-149 M63-16135 13-02
PRESSURE FLUCTUATIONS AT RIGID IN TURBULENT BOUNDARY LAYER AT SUPE SPEEDS	RSONIC & SUBS		RESSURE REGULATOR ROBERTSHAW-FULTON TYPE 20004 REGULATOR PERFORMANCE IN PROVIDING AUTOMATIC SAFETY PRESSURE IN PRESSURE
COA-H-140	No.3-12235	23-11	FPRC/MEND185 SYLESHIA MEZER M63-20076 A 20-17
PRESSURE MEASUREMENT IN TRANSITI NOLECULE FLOMS AT SUBSONIC SPEEL PROBES UTIA TN-67	S USING ORIFI	CE PI 23-11	RESSURE TRANSDUCER CALIBRATION OF PRESSURE TRANSDUCER SYSTEM FOR UNSTEADY PRESSURE MEASUREMENTS
IN-FLIGHT SHOCK WAVE PRESSURE ME			AEDC-TDR-63-29 N63-13424 08-15
NASA-TH-D-1968	N63-23125	24-04	DEVELOPMENT OF PRESSURE TRANSDUCER FOR PRESSURE MEASUREMENT IN HYPERVELOCITY MIND TUNNEL TESTING AEDC-TOR-63-135 N63-18749 17-02
SHOCK TUBE PRESSURE CALIBRATION OF COLD, HIGH DENSITY HYPERSONIC ARC-CP-698 SHIRA BRAND BRANDAR OM	TUNNEL	24-10	TORY II-C REACTOR - CALIBRATION OF PRESSURE TRANSDUCERS IN RADIATION ENVIRONMENTS TN-29 No3-19004 18-15
PRESSURE PULSES IN CLOSED GRANIA CEREBROSPINAL FLUID PULSE WITH E PROBE	L CAVITY -	SSURE	DYNAMIC RESPONSE OF TRANSIENT PRESSURE TRANSDUCERS FOR LIQUID PROPELLANY ROCKET COMBUSTION CHAMBERS MASA-CR-51516 14 22-27
PRESSURE GAUGE CALIBRATOR SIMULA	THE CAMBETATA		RESSURE TUBE NONITORING OF ZIRCALOY-2 PRESSURE TUBES OF THE
AND RISE TIME OF PRESSURE PULSES AND MIND TUNNELS	IN SHOCK TUB	ES _{KTRQ}	PRTR REACTOR FOR HIGH TEMPERATURE AND RADIATION EFFECTS
NOLTR-62-218 ACCELEROMETER SENSITIVITY TO DVI	TALE MINGRESHED	10-15	POSTIRRADIATION EVALUATION OF ZIRCALOV-2
PULSE - VIBRATION . SUDDIE GAYNER	N63-16090		PLUTONIUM RECYCLE TEST REACTOR PRESSURE TUBES -
EVALUATION OF PRESSURE PULSE TRA HEASURING SEISMIC WAVE TRAVEL TO PROJECT	MES - SEDAN	100	HN-73698, REV. N63-1197A 05-17 IRRADIATED ZIRCALDY PRESSURE TUBE FOR NUCLEAR
PNE-235F	N63-16203	13-12	REACTOR LOOP HM-67949-REV N63-12947 07-17
NUCLEAR EXPLOSION - PRESSURE PUL CAVITY IN HALF SPACE AND STRESS		RFACE	ANNEALING STUDIES ON IRRADIATED TYPE 347 STAINLESS STEEL FROM ENGINEERING TEST REACTOR PRESSURE TUBE
PRESSURE PULSES, SHOCK AND VIBRA LAUNCH VEHICLE CONNECTORS - HEAT VACUUM AND RADIATION EFFECTS ON MASA-CR-50562	ENVIRONMENT,	KETS	PROTOTYPE BURST TEST CHAMBER FOR IRRADIATED PRESSURE TUBES FROM HAMFORD REACTOR HW-76158 09-33
PRESSURE PULSE PROPAGATION MODES FLUID SPHERE AFCRL-63-682	WEDS TO SHEEK W	BLE 19-23	TUBE BUNDLE FAILURE IN GAS-COOLEO REACTORS AND ANALYSIS OF BOLT AND SCUFF PLAYE FAILURE 100-28597 N63-15222 11-10
SUPPLEMENTING POSITIVE PRESSURE SHOCK TUBE UTILIZING SOLID PROPE DASA-1369	N63-21112	NEWS .	SUBSONIC, TURBULENT MIXING OF TWO COAXIAL JETS UNDER CONSTANT PRESSURE — DESIGN OF CONSTANT PRESSURE NIXING TUBES — MOMENTUM TRANSPORT THEORY 00/C-02-054A N03-1602 14-11
PRESSURE PULSE GENERATOR FOR CAL PRESSURE GAUGES BALLISTICS RES. REPT109	N63-22187		TIME LAG OF DINES PRESSURE-TUBE AMENOMETER RSIC-34 NG3-19725 19-21

SPR HO

PRESSURE VESSEL THEORY AND APPLICATION OF FILAMENTARY STRUCTURES - FILAMENT-MOUND PRESSURE VESSELS NASA-TH-D-1692 NASA-TH-D-1692 NASA-TH-D-1692	PRESTON TUBE MEASUREMENT OF TURBULENT SKIN-FRICTION WITH THE PRESTON TUBE WGL PAPER-71 N63-10064 01-11
MULTIPLEXING SUBSYSTEM FOR TELEMETRY SYSTEM IN REACTOR CORE GEAP-4026 N63-11947 04-08	PRESTON TUBE FOR LOCAL SURFACE SHEARING STRESS OF FRICTION LAYER N63-20809 21-15
HIGH STRENGTH PRESSURE VESSEL FORMING FROM MATERIAL IN METASTABLE AUSTENITE CONDITION N63-15650 12-18	PRESTRAIN TEMPERATURE EFFECT ON MICROYIELD POINTS IN PRESTRAINED MAGNESIUM SINGLE CRYSTALS
STRENGTH DEGRADATION OF FILAMENT WOUND PRESSURE VESSELS SUBJECTED TO HISTORY OF LOADING N63-15679 12-33	PRESTRESSING FINITE DEFORMATION OF PRESTRESSED ELASTIC MEMBRANE
EVALUATION OF HIGH STRENGTH LIGHTWEIGHT LAMINATED PRESSURE VESSELS OF LAP-JOINT CONSTRUCTION WAL-TR-766.2/3-2 N63-15760 12-17	SUDAER-141 N63-13050 07-33 STRESSES AND DEFORMATIONS OF PRESTRESSED, VERY THIN SHELLS SUBJECTED TO ADDITIONAL LOADS - SHAPE;
ANALYSIS OF AXISYMMETRIC ROTATING PRESSURIZED FILAMENTS NASA-TH-D-1920 N63-15778 13-34	OF INFLATABLE STRUCTURES ARDO-3065-1 N63-14067 09-33
LOW CYCLE FATIGUE DATA FOR STAINLESS STEELS AND TITANIUM ALLOYS IN MULTIAXIAL STRESS FIELDS CYC-2-53420/3R436 N63-15914 13-33	IMPACT RESISTANCE TEST OF CONCRETE BEAMS USING IMPACT TESTING MACHINE - PLAIN, REINFORCED, AND PRESTRESSED BEAM RESULTS M69-19214 11-33
PRESSURE VESSEL TESTING UNDER HIGH PRESSURES AND HIGH LOADING RATES USING A HYDRODYNAMIC DEVICE - STRUCTURAL DYNAMICS N63-16620 14-34	PREVENTION SA CORROSION PREVENTION TESTS TO DETERMINE FEASIBILITY OF USING WATER FOG OR THERMAL UPDRAFT TO CONTROL OR DISPERSE FUNES
HIGH STRENGTH LAMINATED PRESSURE VESSEL OF LAP- JOINT CONSTRUCTION USING MARAGING STEEL AND POLYAMIDE EPOXY RESIN ADHESIVE	FROM SPILLED NITROGEN TETROXIDE SSO-TOR-62-177 N63-11134 03-26
RAC-1160 N63-16938 14-34 EXTERNALLY PRESSURIZED, AXISYMMETRICAL FOIL	IGNITION AND FLAMMABILITY STUDIES ON COMBUSTIBLES AND OXIDANTS OF FLIGHT VEHICLES ASD-TR-61-278, SUPPL. 1 N63-11160 03-26
RR-63-4 N63-17072 15-17	PRIMER CF EXPLOSIVE DEVICE TRACESTING SYMM AND STATEMENT
ANALYTICAL DESIGN FOR FILAMENT WOUND PRESSURE VESSELS - EFFECT OF CENTRIFUGAL LOADING N63-17657 16-34	ENERGY REQUIREMENTS FOR DETONATION OF WIRE AND CARBON BRIDGE MEAPON PRIMERS
PREDICTION OF PRESSURE VESSEL MINIMUM FATIGUE LIFE BASED ON APPLIED FRACTURE MECHANICS D2-22437 N63-18626 17-33	RESIM MODIFIED TWO PACKAGE WASH PRIMERS - PAINTS
FRACTURE MECHANICS OF HIGH STRENGTH STEEL PRESSURE VESSELS WAL-TR-110.9/1 N63-19615 19-18	CCL-143 N63-16524 14-IT PRINCIPLE S FERMAT PRINCIPLE
MATERIAL EVALUATION FOR DESIGN OF SEGMENTED SPHERICAL PRESSURE VESSELS AND REINFORCEMENT RINGS	S PONTRYAGIN PRINCIPLE S VARIATIONAL PRINCIPLE PRINTED CIRCUIT
ARC CHAMBER PRESSURE VESSEL DESIGN FOR HYPERSONIC MIND TUNNEL N63-22332 23-10	PRINTED RESISTORS IN MICROMINIATURE ELECTRONIC EQUIPMENT
GEOMETRICAL PARAMETERS AND DYNAMIC STRENGTH OF CVLINDRICAL PRESSURE VESSELS	BIBLIOGRAPHY - PRINTED CIRCUIT AND WELDED MODULES SB-63-17 N63-16220 13-09
PA-TM-1206 N63-22394 23-34 CRITICAL CRACK LENGTH OF HIGH STRENGTH FLAT SHEETS AND CYLINDRICAL PRESSURE VESSELS	GOLD, COPPER AND NICKEL PLATING OF INTERFACE ELECTRIC CONTACTS ON MINIATURE PRINTED CIRCUITS PP-T-9672-1 N63-18087 16-17
DMIC-MEMO-174 N63-22818 23-18 PHOTDELASTIC DETERMINATION OF STRESSES DUE TO BENDING OF THIN CYLINDRICAL MOZZLES IN SPHERICAL	EFFECT OF DIP SOLDERING AT VARIOUS TEMPERATURES & TIMES ON VARIOUS PRINTED CIRCUIT BOARDS & SOLDER-RESIST MATERIALS
PRESSURE VESSELS N63-23596 24-02	PP-T-9672-2 H63-22349 23-01
PHYSIOLOGICAL PROTECTION OF THE CSU-4/P HIGH ALTITUDE PRESSURE SUIT ARRL-TDR-62-112 N63-10678 02-16	PRINTED TAPE BUFFER EQUIPMENT EVALUATION AFCRL-62-891 N63-14183 09-20
FOG-RESISTANT MATERIALS FOR HIGH ALTITUDE HELMET VISORS FOR PRESSURIZED SUIT AMRL-TDR-62-141 N63-12739 06-16	PRINTER ULTRAHIGH SPEED LOW-COST PRINTER SYSTEM NASA-CR-51310 N63-21904 22-08
DESIGN GUIDE FOR PRESSURIZATION SYSTEM EVALUATION FOR LIQUID PROPELLANT ROCKET ENGINES NASA-CR-50313 No3-18037 16-26	PRINTOUT AMPLITUDE DIGITIZING APPARATUS WITH PRINTOUT LNF-63/1 N63-15449 12-09
DECOMPRESSION SICKNESS DUE TO PRESSURE DROP IN PRESSURIZED CABIN OR SPACE CAPSULE N63-18942 18-16	PRISH CF QUARTZ COMFORMAL TRANSFORMATION METHOD APPLIED TO NATURAL FREQUENCY OF AXIAL SHEAR VIDRATION OF PRISHATIC

1-11 DF 1-15

9-10

7-33 APES 9-33 D 1-33

FOG S 9-26 LES 5-24

5-26 TS 4-17

5-01 LES 3-01

6-17 S & ER-3-01

9-20

2-08

2-01

URAL

MASS ATTACHMENT TO THROUGH TE TELESCOPE FOR AIRLING AT CONTEX OF SOLAR DISK MAS-12972 24-05 MIGHT AT CONTEX OF SOLAR DISK MAS-22972 24-05 MASSAILTY MASSITICS AND DESIGN OF EXPERIENTS— MASSITICATION OF MASSAILTY DISK MASSAILTY DI		
MANABALITY OF A CONSTRUCTION OF EXPERIENCES - MOD-10354 01-20 MINISTRUCT OF CONSTRUCTION SIMULTAMENDIA COMPOSITION OF A CONSTRUCTION OF MOD-10354 01-20 MINISTRUCT OF CONSTRUCTION SIMULTAMENDIA COMPOSITION OF MOD-10354 01-20 MINISTRUCT OF CONSTRUCTION SIMULTAMENDIA COMPOSITION OF MOD-10354 01-20 MINISTRUCT OF CONSTRUCTION SIMULTAMENDIA COMPOSITION OF MOD-10354 01-20 MINISTRUCT OF A CONSTRUCTION OF MOD-10354 01-20 MINISTRUCT OF MOD-10354 01-20 MINISTRUCT OF MOD-10354 01-20 MINISTRUCT OF MOD-10354 01-20 MINISTRUCT OF MOD-10355 01-12 A PROBABILITY INTEGRALS OF MAINTURES OF MOD-10355 01-12 A PROBABILITY PROBABILITY INTEGRAL OF MOD-10355 01-12 A PROBABILITY PROBABILITY INTEGRATION MOD-10355 01-12 A PROBABILITY PROBABILITY INTEGRATION OF MOD-10355 01-12 A PROBABILITY PROBABILITY INTEGRATION MOD-10355 01-20 MINISTRUCT OF MAINTER OF PROBABILITIES OF MOD-10355 01-20 MINISTRUCT OF MAINTER OF PROBABILITIES OF MOD-10355 01-20 MINISTRUCT OF MAINTER OF MOD-10355 01-20 MINISTRUCT OF MAINTER OF MOD-10355 10-20 MINISTRUCT OF MAINT	MAS - , and - game - 25 The AS - 21 TH N63-15060 - 211-19	
STATISTICAL OPERATORS FOR PRODUCTION OF EXPERIMENTS— MOD-2789-12 MOD	AINING AT CENTER OF SOLAR DISK	BRAIN - PSYCHOLOGY UPRS-20550 VOIRAM TO VALSHT YTT N63-19752 19-16
MIND-275-12 MINDOS FOR CONSTRUCTING SIMPLANGOUS COMPLIDENCE MINTERVALS FOR LINEAR FUNCTIONS OF UNKNOWN MINTERVALS OF MINTERVALS FOR MINTERVALS OF MINT	PERSONALITY . STATES AND EAS BYHAMICS	STATISTICAL OPERATORS FOR PREDICTING LOW CLOUDS
THEORY OF A LINEAR FUNCTION OF UNKNOWN MAD THE LOCADAPTY MAD THE LOC	TESTING WARRANT COTTON OF THE COTTON OF THE COTTON OF THE COTTON	DI PREVIEWATECAS OF ATTSTICS AND PROBABILITY OF THE CHAPT
INTERVALS FOR LINEAR FUNCTIONS OF UNCREASED MODABILITY INTEGRALS OF MULTIVARIATES, STATISTICS AND DIBLIOGRAPHY OF MADDAILITY IORS OF UNCREASED THREALFORE AT MIGH ALTITUDES MODABLITY INTEGRALS OF PRINTIPALITY CORE SOF UNCREASED THREALFORE AT MIGH ALTITUDES MODABLITY PROBLEM OF PROBABILITY CORES OF UNCREASED THREALFORE AT MIGH ALTITUDES MODABLITY PROBLEM OF PROBABILITY CORES OF UNCREASED THREALFORE AT MIGH ALTITUDES MODABLITY PROBLEM OF OPTIMAL CONTROL MODAL PROBABILITY PROBLEM OF PRINTIPAL CONTROL MODAL PROBLEM OF PROBLEM OF PRINTIPAL CONTROL MODAL PROBLEM OF PROBLEM OF PRINTIPAL CONTROL MODAL PROBLEM OF PROBLEM OF PRINTIPAL CONTROL MODAL PROBLEM OF PROBL	M63-10156 01-20	ESD-TDR-43-407 NA3-20631 20-14
PROBABILITY INTEGRALS OF MULTIVARIATES, STATISTICS MAD BELIEGRAPHY OF MASSIBLE MAD PROBABILITY JOHS OF INCREASED DATA PROCESSING TRACTING CONTROL MAD-21099 21-20 DATA PROCESSING TRACTING CONTROL MAD-21099 22-20 CONVERGENT ASVAPIDIC EXPANSION FOR MILL RATIO AND MORNAL PROBABILITY DESTROYOR FOR MILL RATIO AND MORNAL PROBABILITIES MAD-11039 00-20 M	INTERVALS FOR LINEAR FUNCTIONS OF UNKNOWN PROBABILITIES SAM-62-81 N63-10434 01-20	GLASS FIBER TEMSILE STRENGTH VERSUS PROBABILITY OF FAILURE FOR VARIOUS LENGTHS - FLAW DETECTION RDR-1343-3
DIUMAL PATTERN OF PROBABILITY LORES OF INCREASED PRESIDENT AT MIGH ALTITUSE MOD-10565 01-12 PRESIDENT AT MIGH ALTITUSE MOD-10565 01-12 PRESIDENT AT MIGH ALTITUSE MOD-10569 02-20 MODABILITY PROBLEM OF OFTIMAL CONTROL PRESIDENT ASSESSMENT OF PROBABILITY INTEGRAL IN TERRS OF RATIONAL PROCESSOR MOD-10570 02-20 MODABILITY INTEGRAL IN TERRS OF RATIONAL PROCESSOR MOD-10570 02-20 MODABILITY INTEGRAL IN TERRS OF RATIONAL MACHINE PROBABILITY OF STER RELIABILITY MOD-10570 02-20 MODABILITY OF STER RELIABILITY MOD-10570 MODEL OF MODEL	PROBABILITY INTEGRALS OF MULTIVARIATES, STATISTICS	STATISTICAL AND PROBABILITY SIMULATION AS POSSIBLE PRINCIPLE OF CONSTRUCTING CONTROL SYSTEMS - SOVIET
CONVERGENT ASYMPTOTIC EXPANSION FOR RILL RATIO AND CONVERGENT ASYMPTOTIC EXPANSION FOR ALL RATIO AND CONVERGENT ASYMPTOTIC EXPANSION FOR RILL RATIO AND CONVERGENT ASYMPTOTIC EXPANSION FOR REAL RATIO AND CONVERGENT ASYMPTOTIC EXPANSION FOR REAL RATIO AND CONVERGENT ASYMPTOTIC EXPANSION FOR REAL RATIO AND CONVERGENT ASYMPTOTIC TRANSITION PROBABILITYS MEDICAL RECEIVER UNDER RAND-LIMITED WHITE HOISE AND SIGNAL PIUS HOISE. PIUM I-108 F-22 IND. 1002APPHY ON ATORIC TRANSITION PROBABILITIES MEDICAL RECEIVER UNDER RAND-LIMITED WHITE HOISE AND SIGNAL PIUS HOISE. PIUM I-108 F-22 IND. 1002APPHY ON ATORIC TRANSITION PROBABILITY OF LOGARITHMIC RECEIVER UNDER RAND-LIMITED WHITE HOISE AND SIGNAL PIUS HOISE. PIUM I-108 F-22 IND. 1002APPHY ON ATORIC TRANSITION PROBABILITY DESTRIBUTION AS OFTEN ASSOCIATED AS OFTEN ASSOCIATED AS	TURBULENCE AT HIGH ALTITUDES	PROBABILITY CHARACTERISTICS OF SENSOR OUTPUTS TO REDUCE REDUNDANT INFORMATION TRANSMISSION
CONVERCENT ASYMPTOTIC EXPANSION FOR RILL RATIO AND ROBRAL PROCESS. PROBABILITY CONTROL PROGRADITY OF PROBABILITIES MADE 11093 04-20 BIBLIOGRAPHY OF PROBABILITIES MADE 1108 - 0521123 07-09 REAL REAL RATIN RETAL IONS - 052112470 07-09 REAL REAL RATIN RETAL IONS - 052112470 07-09 REAL REAL REAL RETAIN RETAL IONS - 052112470 07-09 REAL REAL REAL REAL RETAIN RETAIL IONS - 052112470 07-09 REAL REAL REAL REAL REAL REAL REAL REAL	A PROBABILITY PROBLEM OF OPTIMAL CONTROL	SAMPLING OF FINITE POPULATION OF UNEQUAL
HALL EARTH NETAL IONS - OSCILLATOR STRENGTHS AND TRANSITION PROBABILITIES N63-1167 04-23 PROBABILITY LIMITS FOR ATMOSPHERIC TERPERALUES, SCALAR WIND SPEED, AND VECTOR WIND SHEAR ABOVE PROBABILITY LIMITS FOR ATMOSPHERIC TERPERALUES, SCALAR WIND SPEED, AND VECTOR WIND SHEAR ABOVE PROBABILITY DISTRIBUTION AT OUTPUT OF LOCARTHRHIC RECEIVER UNDER BAND-LIMITED WHITE NOISE BAND SIGNAL PULL OF LOCARTHRHIC RECEIVER UNDER BAND-LIMITED WHITE NOISE BAND SIGNAL PULL OF LOCARTHRHIC RECEIVER UNDER BAND-LIMITED WHITE NOISE BAND SIGNAL PULL OF LOCARTHRHIC RECEIVER UNDER BAND-LIMITED WHITE NOISE BAND SIGNAL PULL OF LOCARTHRHIC RECEIVER UNDER BAND-LIMITED WHITE NOISE BAND SIGNAL PULL OF LOCARTHRHIC RECEIVER UNDER BAND-LIMITED WHITE NOISE BAND SIGNAL PULL OF LOCARD PROBABILITY DESTRIBUTION OF MS3-14220 09-20 TRANSITION THEORY OF CREEP RUPTURE AND RELAXATION MS3-14423 10-20 MGG-226 MG-227 MG-226 OP-20 OFFICAL TRANSITION PROPERTIES - SURVEY MS3-14430 10-23 MGC-226 MG-227 MG-226 OP-20 OFFICAL TRANSITION PROPERTIES - SURVEY MS3-14430 10-23 MGC-226 MG-227 MG-2	CONVERGENT ASYMPTOTIC EXPANSION FOR MILL RATIO AND MORNAL PROBABILITY INTEGRAL IN TERMS OF RATIONAL	AROD-2934-2 N63-21695 22-20
TRANSITION PROBABILITY SAMPLING THE PROBABILITY DISTRIBUTION SIGNAL INSTRUMENT OF FINITE-STAMPLING OF PROBABILITY AND PRESENCE OF PROBABILITY HINDS OF RANDOW PROBABILITY HINDS OF RANDOW PROCESSING MAS-19458 10-20 TRANSITION THEORY OF CREEP RUTURE AND RELAXATION MAS-19459 10-23 PROPAGABILITY DESTRUCTION OF RECTAMBLE AND RELAXATION MAS-19459 10-23 TRANSITION THEORY OF CREEP RUTURE AND RELAXATION MAS-19459 10-23 PROPAGABILITY DESTRUCTION OF RECTAMBLE AND SIGNAL PROBABILITY DESTRUCTORS OF RANDOW VARIABLES AND PROBABILITY DESTRUCTORS OF RANDOW PROCESSES - PROBABILITY DESTRUCTORS OF RANDOW PROCE	DIDCHERICAL PRODE OF WIXED CULTURE PROTURNED IN	NA 1-23399 91 24-23
PROBABILISTIC NETWORK STUDY - SYSTEM RELIABILITY ACCIL-62-724 ACCIL-62-725 ACCIL-62-726 ACCIL-62-726 ACCIL-62-726 ACCIL-62-726 ACCIL-62-726 ACCIL-72-725 ACCIL-72-	TRANSITION PROBABILITIES	PROBABILITY LINITS FOR ATMOSPHERIC TEMPERATURES,
TRANSITION THEORY OF ARDILLITY DISTRIBUTION AT OUTPUT OF LORDARD 11710S PROBABILITY DISTRIBUTION AT OUTPUT OF LORDARD 10-23 PROBABILITY DISTRIBUTION THEORY OF CREEP RUPTURE AND RELAXATION MG-14528 MG-1452	PROBABILISTIC NETWORK STUDY - SYSTEM RELIABILITY	FR04-75 N63-23560 24-21
PROBABILITY DESTIVE UNDER BAND-LIMITED WHITE MOISE AND SIGNAL PUS NOISE PIBRATI-1087-02 MG3-14228 09-20 TRANSITION THEORY OF CREEP RUPTURE AND RELAXATION MG3-21. MG3-14229 10-20 TRANSITION THEORY OF CREEP RUPTURE AND RELAXATION MG3-22. MG3-14229 10-20 TRANSITION THEORY OF ELASTIC—PLASTIC DEPORTATION MG4-14229 10-20 TRANSITION THEORY OF ELASTIC—PLASTIC DEPORTATION MG4-1423 10-23 PROPERTIES OF PROBABILITY DISTRIBUTIONS WITH MGM070TM HAZARD RATE OF PROBABILITY DESTIVE OF PST-501 PROBABILITY THEORY MG4-1523 11-20 PROBABILITY MG6-1523 11-20 PROBA		ABSORPTION - INFLUENCE OF HYPERFINE STRUCTURE AB-1108-0006 M43-23757 24-23
TRANSITION THEORY OF CREEP RUPTURE AND RELAXATION M63-14425 10-20 TRANSITION THEORY OF ELASTIC DEFORMATION M63-14425 10-20 MPALIED TO BENDING OF RECTANGULAR SHEET MC-226 M63-14436 10-33 OPTICAL TRANSITION PROPERTIES - SURVEY M63-14436 10-23 PROPERTIES OF PROBABILITY DISTRIBUTIONS WITH ROMOTOME HAZAAD RATE M63-14636 10-20 PROBABILISTIC OUTPUT OF FINITE-STATE MACHINE ELEMENTS FOR RANDOM INPUT USING MODULAR CINCUITS M63-14436 14-30 STATISTICAL PROBABILITY AND PRELAUNCH PROBLEMS STATISTICAL PROBABILITY AND PRELAUNCH PROBLEMS M63-13344 08-20 HUMAN ESTINATION OF REAM OF SEQUENTIALLY DISPLAYED DISTRIBUTION - TIME DEPENDENT PROBABILITY OF SAMPLE M63-13344 15-14 PROBABILITY OF DISCRIMINATION BETWEEN SUBSEQUENT ALTERNATIVE STINUI. STATISTICAL PROBABILITY FOR RELIABILITY OF SAMPLE M63-13344 16-14 PROBABILITY OF DISCRIMINATION BETWEEN SUBSEQUENT ALTERNATIVE STINUI. STINUI. STATISTICAL PROBABILITY FOR RELIABILITY OF SAMPLE M63-13344 16-14 PROBABILITY OF DISCRIMINATION BETWEEN SUBSEQUENT ALTERNATIVE STINUI. STATISTICAL PROBABILITY FOR RELIABILITY OF SAMPLE CESTINATION THEORY FOR FOR SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLING PROBABILITY OF SAMPLE OF SAMPLE OF SAMPLING PROBABILITY OF SAMPLE OF SAMPLE OF SAMPLING PROBABILITY OF SAMPLE OF S	RECEIVER UNDER BAND-LINITED WHITE NOISE AND SIGNAL PLUS NOISE	PROBABILITY DENSITY CALCULATION OF PROBABILITY DENSITY PUNCTION OF SUMS AND PRODUCTS OF RANDOM VARIABLES
TRANSITION THEORY OF ELASTIC PLASTIC DEFORMATION APPLIED TO BENDING OF RECTANGULAR SHEET MRC-326 M63-14494 10-33 M63-14494 10-33 M63-14494 10-33 M63-14494 10-33 M63-14496 10-23 PROPERTIES OF PROBABILITY DISTRIBUTIONS WITH MONOTOME HAZARD RATE M63-14696 10-20 PROBABILITY THEORY M63-14696 10-20 PROBABILITY THEORY M63-13493 00-20 PROBABILITY THEORY M63-13493 00-20 M63-1349	PIBMR I-1087-62 M63-14228 09-20	TOTAL STATE STATE STATE OF STATE STA
TRANSITION THEORY OF ELASTIC—PLASTIC DEFORMATION APPLIED TO BENDING OF RECTANGLAR SHEET NRC-326 No.9—14494 10—33 No.9—14494 10—33 No.9—14494 10—33 No.9—14494 10—33 No.9—14494 10—39 No.9—14494 No.9—14494 10—29 No.9—14494 No.9—14494 No.9—14495 10—29 No.9—14494 No.9—14495 10—20 No.9—14496 No.9—14495 10—20 No.9—14496 No.9		INTERVALS OF RANDOM PROCESSES - PROBABILITY
OPTICAL TRANSITION PROPERTIES - SURVEY PST-501 PROPERTIES OF PROBABILITY DISTRIBUTIONS WITH MODITION HAZARD RATE PROBABILISTIC OUTPUT OF FINITE-STATE MACHINE ELEMENTS FOR RANDOM INPUT USING MODULAR CIRCUITS IN DISTRIBLY DISTRIBUTION FOR HISSILES - M63-13243 10-20 LAMMCHING PAD OPERATIONS FOR HISSILES - M63-15671 12-09 LAMMCHING PAD OPERATION FOR HISSILES - M63-15671 12-09 LAMMCHING PAD OPERATIONS FOR HISSILES - M63-15671 12-09 HUMAN ESTINATION OF MEAN OF SEQUENTIALLY DISPLAYED DISTRIBUTION HEAD PAD OPERATION HEAD P	APPLIED TO BENDING OF RECTANGULAR SHEET	AF-102 MATHEMATICAL TABLES OF PROBABILITY DENSITY OF
PROPERTIES OF PROBABILITY DISTRIBUTIONS WITH MONOTONE HAZARD RATE 01-62-0148 M63-14656 10-20 PROBABILISTIC OUTPUT OF FINITE-STATE RACHINE ELEMENTS FOR RAMOON INPUT USING MODULAR CIRCUITS IN DIGITAL COMPUTERS AFCAL-62-939 M63-15671 12-09 AFCAL-62-939 M63-15671 12-09 AFCAL-62-939 M63-15671 12-09 AFOAL-62-939 M63-15671 12-09 RELATIVE EFFICIENCY OF SAMPLING RETHORS OF POPULATION MEAN AROD-2934-3 M63-1344 M63-14545 14-30 PROBABILITY THEORY UNEQUIAL PROBABILITY FROM HULTISTAGE SAMPLING AROD-2934-3 M63-1344 M63-13457 M63-13457 M63-13457 M63-14523 M63-14523 M63-14523 M63-14523 M63-14523 M63-14525	OFTICAL TRANSITION PROPERTIES - SURVEY	NONCENTRAL T-DISTRIBUTION - STATISTICS
ELBRENTS FOR RAMOON INPUT USING MODULAR CIRCUITS IN DIGITAL COMPUTERS APCAL-62-039 LAUNCHING PAO OPERATIONS FOR MISSILES - STATISTICAL PROBABILITY AND PRELAUNCH PROBLEMS JPL-TR-32-031, PT. I N63-16445 14-30 STATISTICAL INSTRUMENTATION STUDY - SIGNAL PROBABILITY ANALYZER RADC-TOR-63-136 HUMAN ESTINATION OF MEAN OF SEQUENTIALLY DISPLAYED OISTRIBUTION - TIME DEPENDENT PROBABILITY M63-17394 15-14 PROBABILITY OF DISCRIMINATION BETWEEN SUBSEQUENT ALTERNATIVE STIMULI ESO-TOR-63-139 M63-17634 16-14 STATISTICAL PROBABILITY FOR RELIABILITY OF SAMPLE LIFE - MEIBULL DISTRIBUTION M63-17634 16-14 STATISTICAL PROBABILITY FOR RELIABILITY OF SAMPLE LIFE - MEIBULL DISTRIBUTION M63-17724 16-20 TRANSITION PROBABILITY FOR MOLECULAR SPECTRUM - VIBRATIONAL QUANTUM NUMBERS - VACUUM ULTRAVIOLET TRANSITIONS OF PROBABILITY DISTRIBUTION ATMOSPHERIC RADIATION - PROBABILITY DISTRIBUTION M63-14523 10-20 ATMOSPHERIC RADIATION - PROBABILITY DISTRIBUTION M63-14523 10-20	PROPERTIES OF PROBABILITY DISTRIBUTIONS WITH MOMOTONE HAZARD RATE	ASYMPTOTIC THEORY WITH FINITE POPULATION
LAUNCHING PAD OPERATIONS FOR MISSILES - STATISTICAL PROBABILITY AND PRELAUNCH PROBLEMS JPL-TR-32-431; PT. 1 M63-16445 14-30 STATISTICAL INSTRUMENTATION STUDY - SIGNAL PROBABILITY ANALYZER RADC-TOR-69-136 HUMAN ESTINATION OF MEAN OF SEQUENTIALLY DISPLAYED DISTRIBUTION - TIME DEPENDENT PROBABILITY M63-17394 15-14 PROBABILITY OF DISCRIMINATION BETWEEN SUBSEQUENT ALTERNATIVE STIMULI ESO-TOR-63-134 STATISTICAL PROBABILITY FOR RELIABILITY OF SAMPLE LIFE - MEIBULL DISTRIBUTION M63-17634 16-14 STATISTICAL PROBABILITY FOR RELIABILITY OF SAMPLE LIFE - MEIBULL DISTRIBUTION M63-17724 16-20 TRANSITION PROBABILITY FOR MOLECULAR SPECTRUM - VIBRATIONAL QUANTUM NUMBERS - VACUUM ULTRAVIOLET TRANSITIONS ATMOSPHERIC RADIATION - PROBABILITY DISTRIBUTION M63-14523 10-22 ATMOSPHERIC RADIATION - PROBABILITY DISTRIBUTION RELATIVE EFFICIENCY OF SAMPLING METHODS OF POPULATION MEAN AROD-294-8 N63-1345 08-20 PERSONNEL DECISION THEORY DEDUCED PROB HUMAN AS TRACKING OPERATOR JPL-TR-32-391 M63-13451 08-14 TRACKING OPERATOR JPL-TR-32-391 M63-13451 0	ELEMENTS FOR RANDOM INPUT USING MODULAR CIRCUITS IN DIGITAL COMPUTERS	USING RATIO AND REGRESSION IN NULTISTAGE SAMPLING
ANNOCHING PAO OPERATIONS FOR MISSILES - STATISTICAL PROBABILITY AND PRELAUNCH PROBLEMS STATISTICAL INSTRUMENTATION STUDY - SIGNAL PROBABILITY ANALYZER RADC-TOR-69-136 M63-17118 15-20 HUMAN ESTINATION OF MEAN OF SEQUENTIALLY DISPLAYED DISTRIBUTION - TIME DEPENDENT PROBABILITY M63-17394 15-14 PROBABILITY OF DISCRIMINATION BETWEEN SUBSEQUENT ALTERNATIVE STIMULI ESO-TOR-63-134 M63-17634 16-14 STATISTICAL PROBABILITY FOR RELIABILITY OF SAMPLE LIFE - MEIBULL DISTRIBUTION M63-17724 16-20 TRANSITION PROBABILITY FROM MOLECULAR SPECTRUM - VIBRATIONAL QUANTUM NUMBERS - VACUUM ULTRAVIOLET TRANSITIONS PROBABILITY PROBABILITY DISTRIBUTION ATMOSPHERIC RADIATION - PROBABILITY DISTRIBUTION ATMOSPHERIC RADIATION - PROBABILITY DISTRIBUTION ATMOSPHERIC RADIATION - PROBABILITY DISTRIBUTION POPULATION MEAN AROO-2934-6 N63-13945 60-20 PERSONNEL DECISION THEORY DEDUCED PROM HUMAN AS TRACKING OPERATOR JPL-TR-32-391 N63-13451 08-14 PROBABILITY DYNAMICS IN MEATNER FORECASTING - ESTIMATION THEORY FOR FUNCTIONS OF SPECTRAL DENSITY PROBABILITY DYNAMICS IN MEATHER FORECASTING - ESTIMATION THEORY APPLIED TO REAL DATA AD-216319 AD-216319 ATMOSPHERIC RADIATION - PROBABILITY DISTRIBUTION ATMOSPHERIC RADIATION - PROBABILITY DISTRIBUTION ATMOSPHERIC RADIATION - PROBABILITY DISTRIBUTION	AFCRL-62-939 N63-15671 12-09	RELATIVE EFFICIENCY OF SAMPLING METHODS OF
STATISTICAL INSTRUMENTATION STUDY - SIGNAL PROBABILITY ANALYZER RADC-TOR-63-136 N63-17118 15-20 HUMAN ESTIMATION OF NEAN OF SEQUENTIALLY DISPLAYED OISTRIBUTION - TIME DEPENDENT PROBABILITY N63-17394 15-14 PROBABILITY OF DISCRIMINATION BETWEEN SUBSEQUENT ALTERNATIVE STIMULI ESO-TOR-63-134 N63-1734 16-14 STATISTICAL PROBABILITY FOR RELIABILITY OF SAMPLE LIFE - MEIBULL DISTRIBUTION TRANSITION PROBABILITY FROM MOLECULAR SPECTRUM - VIBRATIONAL QUANTUM NUMBERS - VACUUM ULTRAVIOLET TRANSITIONS TRANSITIONS ATMOSPHERIC RADIATION - PROBABILITY DISTRIBUTION PROBABILITY DYNAMICS IN MEATHER FORECASTING - ESTIMATION THEORY OF FUNCTIONS OF SPECTRAL DENSITY PROBABILITY DYNAMICS IN MEATHER FORECASTING - ESTIMATION THEORY OF FUNCTIONS OF SPECTRAL DENSITY DATA TRANSFORMATION HEURISTICS FORLOWING CURTISS THEOREM USING PROBABILITY AND REAL FUNCTION THEORY MG2-1555 ATMOSPHERIC RADIATION - PROBABILITY DISTRIBUTION	STATISTICAL PROBABILITY AND PRELAUNCH PROBLEMS	POPULATION HEAN
HUMAN ESTINATION OF MEAN OF SEQUENTIALLY DISPLAYED DISTRIBUTION - TIME DEPENDENT PROBABILITY N63-17394 15-14 PROBABILITY OF DISCRIMINATION BETWEEN SUBSEQUENT ALTERNATIVE STINULI ESO-TOR-63-134 STATISTICAL PROBABILITY FOR RELIABILITY OF SAMPLE LIFE - MEIBULL DISTRIBUTION N63-17724 16-20 TRANSITION PROBABILITY FROM MOLECULAR SPECTRUM - VIBRATIONAL QUANTUM NUMBERS - VACUUM ULTRAVIOLET TRANSITIONS ATMOSPHERIC RADIATION - PROBABILITY DISTRIBUTION ATMOSPHERIC RADIATION - PROBABILITY DISTRIBUTION ATMOSPHERIC RADIATION - PROBABILITY DISTRIBUTION M63-14583 10-20	STATISTICAL INSTRUMENTATION STUDY - SIGNAL PADDAA BILITY ANALYZER	PERSONNEL DECISION THEORY DEDUCED PROM HUMAN AS TRACKING DPERATOR JPL-TR-32-391 N63-13451 '08-14
PROBABILITY OF DISCRIMINATION BETWEEN SUBSEQUENT ALTERNATIVE STIMULI ESO-TOR-63-134 STATISTICAL PROBABILITY FOR RELIABILITY OF SAMPLE LIFE - MEIBULL DISTRIBUTION TRANSITION PROBABILITY FROM MOLECULAR SPECTRUM - VIBRATIONAL QUANTUM NUMBERS - VACUUM ULTRAVIOLET TRANSITIONS ATMOSPHERIC RADIATION - PROBABILITY DISTRIBUTION PROBABILITY DYNAMICS IN MEATHER FORECASTING - ESTIRATION THEORY APPLIED TO REAL 0A7A AD-216319 DATA TRANSFORMATION HEURISTICS FOLLOWING CURTISS THEOREM USING PROBABILITY AND REAL FUNCTION THEORY MRC-355 ATMOSPHERIC RADIATION - PROBABILITY DISTRIBUTION	HUMAN ESTIMATION OF MEAN OF SEQUENTIALLY DISPLAYED DISTRIBUTION - TIME DEPENDENT PROBABILITY	GROWTH OF UNCERTAINTY OF INITIAL STATE OF
STATISTICAL PROBABILITY FOR RELIABILITY OF SAMPLE LIFE - MEIBULL DISTRIBUTION M63-17724 16-20 FRAMSITION PROBABILITY FROM MOLECULAR SPECTRUM - VIBRATIONAL QUANTUM NUMBERS - VACUUM ULTRAVIOLET TRANSITIONS N63-14525 10-12 DATA TRANSFORMATION HEURISTICS FOLLOWING CURTISS THEOREM USING PROBABILITY AND REAL FUNCTION THEORY MRC-355 N63-14583 10-20		PROBABILITY DYNAMICS IN MEATHER FORECASTING
TRANSITION PROBABILITY FROM MOLECULAR SPECTRUM - VIBRATIONAL QUANTUM NUMBERS - VACUUM ULTRAVIOLET DATA TRANSFORMATION HEURISTICS FOLLOWING CURTISS TRANSITIONS ATHOSPHERIC RADIATION - PROBABILITY DISTRIBUTION ATHOSPHERIC RADIATION - PROBABILITY DISTRIBUTION	STATISTICAL PROBABILITY FOR RELIABILITY OF SAMPLE	PROBABILITY DYNAMICS IN WEATHER FORECASTING
ATHOSPHERIC RADIATION - PROBABILITY DISTRIBUTEON OF BACKGROUND RADIATION FROM SPATIAL FILTER PROBABILITY THEORY APPLIED TO RELIABLE METHORS.	VIBRATIONAL QUANTUM NUMBERS - VACUUM ULTRAVIOLET	DATA TRANSFORMATION HEURISTICS FOLLOWING CURTISS
		PROBABILITY THEORY APPLIED TO RELIABLE METHORS

DESIGN - REDUNDANT SYSTEMS STATISTICS	AND FAILURE HODES -
IN-1062 ()) HE CO MOLIA	N63-14851 11-09
FOSTER PROBABILITY THEORY CONTINUOUS TIME	OF MARKOV CHAIN IN N63-15387 12-20
ASPECTS OF CONSTRAINED RAN MATHEMATICAL STATISTICS AN ARL-69-18	
MATHEMATICAL MODELS - PROB MRC-390	ABILITY THEORY N63-16589 14-20
UNEQUAL PROBABILITY SAMPLIS SERIES ASPECTS OF PANEL SUI	RVEYS OF FINITE
POPULATIONS AROD-2934-13	N63-19086 18-20
BOOLEAN ALGEBRA - PROBABIL	ITY THEORY AND SUM 163-19372 18-20
GENERALIZED COMPOSITE AND I ESTIMATORS IN ROTATION SAME PROBABILITY THEORY	PLE DESIGNS USING
AROD-2934-12	
MATHEMATICAL STATISTICS AND GAMMA, EXPONENTIAL, AND PER	ARSON TYPE III
DISTRIBUTION ARL-63-100	N63-20909 .21-20
EXPANSION OF MILLS RATIO FO	OR NORMAL PROBABILITY
SA IMPEDANCE PROBE SA LANGMUIR PROBE SA LUNAR PROBE SA METEOROLOGICAL PROBE SA PLASHA PROBE SA SPACE PROBE CORRECTIONS FOR DIFFUSIVE S MIXTURE OUE TO INSERTION OF HE-150-206	SEPARATION OF A GAS
IMPACT-PRESSURE PROBES IN A HYPERVELOCITY FLOW AEDC-TDR-62-208	
	MORCERURAL T-DISTRIBUT
SUPERSONIC WIND TUNNEL TEST	THE OF YOURSETS, NYS AYDARDS.
STATIC PRESSURE PROBES	N63-10763 02-02
CALORIMETRIC PROBE SENSITIN	VITY ANALYSIS
AERONAUTICAL ENG. REPT633	SURE LOCAL SKIN FRICTION
IN TURBULENT BOUNDARY LAYER NUMBERS & PRESSURE GRADIENT DRL-498	
IONOSPHERE DATA OBTAINED NI	
STATIC PROBE	N63-12379 06-12
HARP PROJECT - RESEARCH FAC HIGH ALTITUDE VERTICAL PROB	ERDETH OF UNCERTAINED
MEASURING ELECTRICAL CONDUC	N63-12415 06-12
MAGNETIC PROBE	N63-12748 06-15
PULSED ULTRASONIC THERMOANE ELIMINATE ERRORS DUE TO ELE EFFECTS	MENT HEATING AND STREAM
FTD-TT-62-110/16264 OT 931	N63-12817 06-15
HYDROGEN-OXYGEN COMBUSTION SEEDED PLASMA BY PROBE	
LITY AND REAL FUNCTION SICKLY	164 N63-12965 07-24

FLAME CONTACT STUDIES - MATHEMATICAL ANALYSIS OF HEAT FLOW

NADC-MA-6216
TEMPERATURE AN ROCKET MOZZLE INSTRUMENTATIO NAVWEPS-8022
HICROWAVE OBSE CHANNEL RADIO SPACECRAFT
CHANGES IN TEM ATMOSPHERE - R GCA-TR-62-13-G
HICROMAVE PROB ITS APPLICATIO TR62-2090
PRESSURE PULSE CEREBROSPINAL PROBE NASA-TT-F-158
NUMERICAL ANAL PRESSURE RELAT OF ATTACK UTIA-88
BIOCHEMICAL PR CLOSED ECOLOGI
FEASIBLE SOLAR TECHNOLOGY - S NASA-TN-D-1747
MICROWAVE PROB DISCHARGE AFCRL-63-17
APPLICATION OF MISSIONS - ENE PAYLOADS, ABLA
ANALYSIS OF IN MEASUREMENTS I TUNNEL AEDC-TDR-63-94
RADIO PHYSICS, SCIENCES AND E
SECOND TEST OF BRL-HR-1464
FEASIBILITY OF IAS PAPER-62-2
HUCLEAR REACTO SWITCHING CIRC SENSORS GEMP-76
CALORIMETRIC EL COOLING TO MEA: BALANCE - TECH ARL-63-47
PROBE TO MEASU

SUBJECT INDEX		
IADC-MA-6216	N63-13011	07-13
EMPERATURE AND HEAT TRANSFER HE COCKET NOZZLE THROATS AND EXIT OF INSTRUMENTATION TECHNIQUES, CHAR LAVUEPS - 4022	ONES -	STANK.
HAVWEPS-8022 HICROWAVE OBSERVATIONS OF VENUS (10 to	Ledge
HANNEL RADIO TELESCOPE MOUNTED (PACECRAFT		1.5%
HANGES IN TEMPERATURE STRUCTURE	ENVALS FOR L	THE
10 98401-EQM	N63-14037	RAG.
TICROMAVE PROBE AS A PLASMA DIAGRETS APPLICATION TO IONIZATION IN TR62-2090		VARPS
RESSURE PULSES IN CLOSED CRANIAI EREBROSPINAL FLUID PULSE WITH BI ROBE	CAVITY -	ESSUME
	N63-14364	10-16
UMERICAL ANALYSIS FOR FREE-MOLEC RESSURE RELATION FOR CIRCULAR TO F ATTACK	ULE IMPACT-	LAPL
TIA-88 TO SMEET BY DANSER TY	N63-14866	11-20
LOSED ECOLOGICAL SYSTEM	N63-15041	11-16
EASIBLE SOLAR PROBES FROM PRESENCE - CENTRES -	TAUR VEHICLE N63-15055	EHICLE
ICROWAVE PROBING OF ELECTRON DEC	AY IN GAS	
FCRL-63-17	N63-15105	
PPLICATION OF CRYOGENIC PROPULS! ISSIONS - EMERGY REQUIREMENTS, S AYLOADS, ABLATION, RELIABILITY	OLAR PROBE	5.73E
MALYSIS OF INITIAL STATIC PRESSI		
EASUREMENTS IN LOW-DENSITY HYPER	WELOCITY WI	ND
THE OF RECYANGUEAN SHEET	TEG TO BEHILD	PUSASE
ADIO PHYSICS, PLASMA PHYSICS, CO	N63-15811	13-01
ECOND TEST OF HIGH ALTITUDE GUN RL-MR-1464	PROBE SYSTEM N63-16206	

I

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PROCI VI D.

CF I

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FREU

0

-

N63-16359 14-06

ADIO PHYSICS, PLASHA PHYSICS, CO CIENCES AND ENGINEERING	163-15811	13-01
ECOND TEST OF HIGH ALTITUDE GUN I	PROBE SYSTEM	13-04
EASIBILITY OF SOLAR PROBES AS PAPER-62-21	STORE HAZARD	280%

NTHALPY PROBE USING EVAPORATIVE FILE SURE GAS COMPOSITION AND ENERGY NIQUE TO MEASURE TOTAL ENTHALPY

PROBE TO MEASURE MASS FLOW PER UNIT AREA OF SHORT DURATION FLOWS IN HYPERSONIC SHOCK TUNNEL NPL/AERO/1004 N63-16940 14-18

PHOTODIODE AS SENSITIVE TEMPERATURE PROBE 15-09

CALIBRATION OF FLOW SURVEY METERS IN TRANSONIC MIND TUNNEL M63-18117 16-15

FABRICATION & EVALUATION OF 3-NM DIAMETER MEDICAL PROBES FOR IN VIVO MEASUREMENT - MEDICAL & BIOLOGICAL SENICONDUCTOR DETECTORS NASA-CR-50521 N63-18369 17-1 N63-18369 17-15

DOWNWASH, SIDEWASH, AND MACH NUMBER DISTRIBUTION MEASUREMENTS BEHIND LIFTING WING BY HEMISPHERICAL HEAD PROBE 10 Y 3 11 84 80 99 - MET A 10 N63-19100 - 10-05 -13

-13

-29

-12 0 85 -24

ine -14

GLE -20 -16 CLE -32 -24

-21

-11 -01

-04

-04 TLR -15 -11

-01 -15

AL -15

AL 1-03

THREE-VENT PROBE FOR MEASURING APP.	FLOW FIELD PRESSURE ARATUS M63-20183 20-15		
AERODYNAMIC MEASURING TECHNOLOG TEMPERATURE PROBES, VELOCITY ME CHARACTERISTICS, AND GAS DYNAMI NGL-5/1962	ASUREMENTS, FLOW	PRODUCTION NETHODS, PHYSICAL PRO ELECTRONIC STRUCTURE OF REPRACTO THEIR COMPOUNDS AND ALLOYS	PERTIES, ANDIAME, 2 PERTIES, ANDIAME, 2 COPTICAL SALETY
PRESSURE DISTRIBUTION MEASUREME COMPRESSOR INLETS - SINGLE, TRA PROBES		FABRICATION OF GASKEYS - PRODUCT LANS-2799	8 SPACE PAGGRAM S SPACEOONTEN NOT 17-80 ACM 13416
NITROGEN SPECTRA FROM GLOW OM G SUPERSONIC MOIST AIR FLOW BRL-NEWO-1490	ROUNDED PROBE IN	RELIABILITY AND QUALITY CONTROL	IN PRODUCTION 15-17
MAREFIED GAS DYNAMICS - ELECTRO TEMPERATURE PROBE AND EXAMINATION LUMINESCENCE SPECTRA	ON OF ELECTRO-	OPTIMIZATION OF PRODUCTION - MAT STATISTICAL PARAMETERS IN PLANNI	NG AIRCRAFT ENGINE
DYNAMIC CALIBRATION OF OCEAN WA CAPACITANCE, AND SONIC PROBES	VE RESISTANCE.	PAGENTAL TO SERVICE MOTOURS OF THE COATS OF	
RESONANCE PROBE THEORY EXTENDED	PROCRAMMING	UTILIZATION OF MODERN MACHINES, INSTRUMENT PRODUCTION - SOVIET I	NSTRUMENTATION
TIME EFFECT OF ELECTRONS NUP-63-12		INPROVING PRODUCTION NETHODS FOR PLANAR EPITAXIAL TRANSISTOR	2N1706 SILICON
OBLEN		THE AND PRITTED HOW THE BREIGHBOW	11.4% (2004 3.8) (11.9) (14.4)
BERNSTEIN PROBLEM BLUNT BODY PROBLEM BOUNDARY VALUE PROBLEM	- 23190735LAST 30 - 23190735LAST 30 - 23190735LAST 30H	TECHNOLOGY OF PRODUCTION OF RADI EQUIPMENT JPRS-21222	N63-22105 22-09
CAMONICAL PROBLEM CHAPMAN-FERRADO PROBLEM DIRICHLET PROBLEM EIGENVALUE PROBLEM	IMEQUALITY CONSTR.	RELIABILITY IMPROVEMENTS FOR GET TRANSISTORS - JULY TO OCT 1962	MANIUM DV VRETTAS VIADZ-X-MT-AZAM M63-22362 23-09
GOURSAT PROBLEM MANY-BODY PROBLEM NEUMANN PROBLEM POTENTIAL PROBLEM PRELAUNCH PROBLEM	TRANSPER - CIRCULA	PROFICENCY NEASUREMENT INPROVING FLIGHT PROFICIENCY EVA HELICOPTER PILOT TRAINING	经主总司机哲学 克莱州市民学官 杂志
THREE-BODY PROBLEM TRAVELING SALESMAN PROBLEM TWO-BODY PROBLEM TWO-SAMPLE PROBLEM F NATHENATICS / GEN/	RAPID MAYES IN THE RAPID MAYES IN THE REPERSANCE OF THE	NATURAL PILOT MODEL FOR FLIGHT P EVALUATION IN OPERATIONAL FLIGHT PILOT PERFORMANCE PROFICIENCY ME NAVTRADEVCEM-323-1	ROFICIENCY MAIL 20 TRAINING - MOTUA ASUREMENTS MA3-1908 1/10-14
MYEARS WINEY AND WAYTANAKEN TO V	HOTAGRICUSCUSCUSCUSCUSCUSCUSCUSCUSCUSCUSCUSCUSC	HUMAN FACTORS IN TRAINING AND PREASUREMENT - AIR TRAFFIC CONTRO ESO-TDR-63-328	OFICIENCY IL SYSTEMS AND IN A 19-14
ISOTHERMAL PROCESS M-STAGE PROCESS POLYTAGE PROCESS RANDOM PROCESS STOCHASTIC PROCESS	AT CHINDING NATEYED AT AND THE AT AND THE SOURCE THE CONTROL OF THE SOURCE DETANDENT VACCOT	PROFILE SA SHOCK MAVE PROFILE SA VELOCITY PROFILE SA WIND PROFILE TEMPERATURE AND WIND MEASUREMENT WALLOPS ISLAND, VIRGINIA	MARIN OF HOLYWOOD MARIN OF HOLY OF HOL
VOICE DATA PROCESSING SYSTEM -	COMPUTER FOR	S NASA-TN-0-1694 (C Jacob BYASMAGROS	N63-13720 21 06-12
M63-21206 21-20	N63-12141 05-20	EQUATIONS FOR COMPUTING NUMBER OF TEMPERATURE PROFILES GCA-TA-63-2-A	COMPUTER PRODRAMM
	FORTRAN COMPUTER P CONSING RANGEMENT	TESTS OF WING-TIP-HOUNTED DUCTED	FANS FOR V/STOL N63-14667 10-03
A PHOTOPRODUCTION ION PRODUCTION, CONCENTRATION, IDENTIFICATION IN FLAMES	EXTRACTION AND	CHARACTERISTICS WHICH HAVE SIGNI TRANSITION PERFORMANCE OF V/STOL EFFICIENCY, VELOCITY PROFILE, DE	AIRCRAFT - POWER SIGH, WING PROFILE N63-14692 10-04
FORMATION OF ENERGETIC FRAGMENT BOMBARDMENT OF ORGANIC MOLECULE	IONS BY	ENERGY BUDGET AT EARTH SURFACE -	MICROMETEOROLOGY
ELECTRONS UCRL-10687	158 1090	VELOCITY AND TEMPERATURE PROFILE FRIGTION IN SUPERSONIC TURBULENT	S AND SKIM
CREATION OF ION PAIRS IN MATERI.		FLOW - ANNOTATED BIGLIOGRAPHY AV SER-63-1VI MULAY ZUMIN DMIZE ZTO	INTERNITION REIRI
NORREACTING QUENCHING COMPOUND PRODUCTION IN ATOMIC MITROGEN A MIXTURE		PROGRAM S AGENA B RANGER PROGRAM S ASTROM PROGRAM S BANBI PROGRAM	SCHOOL TELEMENTOR LINES S.
PRODUCTION ENGINEERING RELIABIL ATTACHMENT, CONTACT METALLIZING AND ENCAPSULATION INPROVEMENTS		S COMPILER PROGRAM S DATA EXCHANGE PROGRAM S DOMMAANGE ANTINISSILE MEASUREM	AND ENERGY STEVE
	N63-23345 24-15	S JAJUNG ETT PROGRAM PRETE TOUR HERE THE	NACHINE LEGACH REL

MO. 34 CF

S LOS ALANOS MOLTEN PLUTONIUM REACTOR /LAMPRE/	EUR-257.E 11 MOLT DELAUZATA POT MAS-16025 14-10
S MARINER PROGRAM S MARINER R PROGRAM S MOONMATCH PROGRAM S MOTONAL LAUNCH VEHICLE PROGRAM	DEFORMATION METHOD FOR MINIMIZATION OF QUADRATIC FUNCTION SUBJECT TO LINEAR INEQUALITY CONSTRAINTS, ALGORITHMS FOR PROGRAMMING M63-17907 16-28
S OPTICAL SATELLITE TRACKING PROGRAM S PLANETARY-INTERPLANETARY PROGRAM	COMPUTER PROGRAMMING USING FORAST LANGUAGE
S PLONSHARE PROGRAM S SPACE PROGRAM S SPACE TRAJECTORY PROGRAM	BRL-1172 N63-17884 16-20 OPTIMIZATION OF PROGRAMMING - COMPUTATIONAL CHAIRS
S SPACEHARN PROGRAM S SPINNING UNGUIDED ROCKET TRAJECTORY /SPURT/	AND LOOPS - EQUIVALENCE PROBLEM N63-18426 17-20
S TOPSIDE PROGRAM	OPTIMIZATION OF COMPUTER PROGRAMING-COMPUTATIONAL CHAINS AND LOOPS N63-16427 17-20
PROGRAM MANAGEMENT NASA SELECTION AND MANAGEMENT OF PROGRAMS N63-21148 21-01	COMPUTATIONAL CHAINS AND OPTIMIZATION OF COMPUTER PROGRAMS N63-18428 17-28
SYSTEMS ENGINEERING AS TOOL TO IMPROVE MAMAGEMENT OF DEVELOPMENT PROGRAMS - NASA PROGRAM	EQUIVALENCE PROBLEM FOR FORMALIZING COMPUTER PROGRAMS 17-20
MANAGEMENT OF SPACE PROGRAM AT FIELD CENTER - MASA	NIMBUS SATELLITE - COMPUTER SYSTEM DESIGN AND PROGRAMMING N63-18621 17-38
QUALITY PROGRAM EVALUATION PROCEDURES FOR PROBLEM	COMPUTER PROGRAMMING FOR INTERPLANETARY TRAJECTORY ENCKE METHOD
IDENTIFICATION AND RELIABILITY AND SAFETY NEED OF MANNED SPACE FLIGHT SYSTEMS NASA-SP-6003 N63-21435 22-20	PROGRAMMING AM ANALOG COMPUTER FOR LARGE CLASS
PROGRAMMER SPACECRAFT PROGRAMMER TO CONTROL POWER USAGE AND	OF TRAJECTORIES - NEGATIVE GRADIENT METHOD NOS-19120 18-28
BATTERY VOLTAGE MASA-TM-X-50427 N63-21251 21-06	SOLUTIONS TO OPTIMAL PROGRAMMING PROBLEMS WITH INEQUALITY CONSTRAINTS ON FUNCTIONS OF CONTROL OR STATE VARIABLES
PROGRAMMING INDIGAMENT TO THE PROGRAMMING INDIGATE TO THE	BR-2121 N63-19104 10-20 OPTIMUM THRUST TO WEIGHT RATIO FOR ORBITAL
SA LINEAR PROGRAMMING TO SET T	TRANSFER - CIRCULAR TO ELLIPTICAL ORBIT NASA-TM-X-50279 N63-19391 18-29
DESIGN SYNTHESIS IN A MULTIDIMENSIONAL SPACE WITH AUTOMATED MATERIAL SELECTION N63-10491 01-20	ANALOG COMPUTER PROGRAMMING FOR RAY TRACING OF RADIO MAYES IN THE IONOSPHERE N63-19517 19-20
ALGORITHM FOR SINGULAR QUADRATIC PROGRAMMING MRC-353 N63-12384 06-20	OHNIBUS CALCULATOR OF KINEMATICS OF EARTH ORBITAL
AUTOMATIC DATA RECORDING AND ANALYZING FOR	TRAJECTORIES FOR USE IN COMPUTER PROGRAM RM-3534-PR N63-19781 19-29
NADC-MA-6302 N63-14239 10-20 SOLUTION OF LEAST SQUARES ANALYSIS MITH	COMBINED TRANSLATION AND ASSEMBLY DATA PROCESSING SYSTEM ALLOWING CROSS REFERENCING — PROGRAMMING RM-3646-PR N63-19931 19-01
RELATION TO HIGH SPEED COMPUTERS LA-2367 N63-14609 10-20	CYBERNETICS INCLUDING GAME THEORY, CONTROL SYSTEM
MATHEMATICS - NUMERICAL ANALYSIS, MEDICAL STATISTICS, AND PROGRAMMING ORNL-3423 N63-15047 11-20	THEORY, INFORMATION THEORY, COMPUTER PROGRAMMING, MATHEMATICAL ECONOMICS, AND LINGUISTICS JPRS-20780 N63-20662 20-28
COMPUTER PROGRAMING FOR AIR TRAFFIC CONTROL - MASTER PROGRAM FOR AUTOMATIC FLIGHT DATA	THEORY FOR MATCHING COMPUTER INSTRUCTION REPETOIRE TO PROBLEM REQUIREMENTS * AML-6722 N63-21206 21-20
PROCESSING N63-15207 11-20	FORTRAM COMPUTER PROGRAM TO DESIGN PLUG NOZZLE BY
ADAPTIVE, PREDICTIVE MODEL FOR NONLINEAR PROCESSES WITH TWO-LEVEL INPUTS N63-15248 12-20	USING RAD MAXIMUM THRUST THEORY NASA-CR-51301 N63-21914 22-27
BOUNDED ALGORITHMIC LANGUAGES IN PROGRAMMING AFCRL-63-89 M63-15364 12-20	COMPUTER PROGRAMMING FOR COMMAND-CONTROL SYSTEMS LMSC-5-10-63-26 N63-22993 23-06
OPTIMUM THRUST PROGRAMMING FOR MINIMAL FUEL MIDCOURSE GUIDANCE N63-15630 12-29	SMAP METHOD ROGRAMMER FOR DATA PROCESSING BY SMAP METHOD N63-23108 24-01
OPTIMAL PROGRAMMING OF MULTIVARIABLE CONTROL SYSTEMS IN PRESENCE OF NOISE N63-15639 12-20	DUAL ABLATION ROUTINE IN FORTRAN LANGUAGE FOR 18M 7090 N63-23367 24-13
ADAPTIVE MODIFICATION OF LINEAR ASSOCIATIVE IMPORMATION RETRIEVAL MAPPINGS - ELIMINATION OF IRRELEVANT DOCUMENTS USING MINUS VALUE INDEX TERMS ACORN-23 N63-15956 13-20	PROJECT S ADVENT PROJECT S APOLLO PROJECT S BANKHEE PROJECT S BANKHEE PROJECT
PARAMETER-DEPENDENT PROGRAMMING - COMPUTER NETHOD FOR QUADRATIC OBJECTIVE FUNCTION, LINEAR SECONDARY CONDITIONS, AND POLYMOMIAL OF PARAMETERS 0VL-238 13-11	S BANSHE PROJECT S BLOCOWIER PROJECT S CENTAUR PROJECT S EXCELSIOR PROJECT S FIRE PROJECT S GEMINI PROJECT S GEMINI PROJECT S GEMOME PROJECT
MULTISTAGE SEARCH GAME - GAME THEORY APPLICABLE TO MACHIME SEARCH PROGRAMMING - INFORMATION RETRIEVAL	S GNOME PROJECT

-20 C TL,

-28

-20

Ties

-20

AL -20

-30

-29

-20

08

-20

-29

-20 AL

-29

NG

-01

EN IG,

-20

-20 BY -27

15

-01

-13

640

S HAWK PROJECT S HIGH POMER PROJECT S HIGH MATER PROJECT S HYDRA PROJECT S LITTLE JOE PROJECT	MILLIMETER WAVELENGTH RADARS TO STUDY PLASMA EFFECTS OF HYPERSONIC VELOCITY PROJECTILES - REENTRY EFFECTS TR-63-2178 N63-21552 22-24
S NERCURY PROJECT S ORGEL REACTOR PROJECT S PERT PROJECT S PLAMETARY CIRCULATIONS PROJECT	VISIBLE RADIATION FROM MYLON PROJECTILES IN AIR, MITROGEN AND CARBON DIGXIDE NOLTR-63-153 N63-22189 23-19
RANGER PROJECT REACTOR IN-FLIGHT TEST /RIFT/ PROJECT ROVER PROJECT	PROJECTION IATRON APPLICATION TO HIGH SPEED MULTICHANNEL PLOTTER NAVTRADEVCEN-1188-1 N63-16737 16-09
S SEDAN PROJECT S SQUID PROJECT S STAR FISH PROJECT	CENTER OF PROJECTION OF CAMERA IN OBJECT SPACE - OPTICS AFCRL-63-481
S STANGALER PROJECT S SUNCHONDOUS COMMUNICATIONS SATELLITE PROJECT S WHITETOP PROJECT S WHITETOP PROJECT	PROLATE SPHERIOD FUNCTION RAREFIED GAS DYNAMICS - MAKE OF CONDUCTING PROLATE SPHEROID IN MAGNET-FREE RAREFIED PLASMA N63-21589 22-24
PROJECTED AREA PROJECTED AREAS OF AXISYMMETRIC SURFACE SECTIONS FOR SEVERAL GEOMETRIC FIGURES	PROMETHIUM SMIELDING REQUIREMENTS FOR PROMETHIUM SOURCES— RADIATION CONTRIBUTIONS AFTER REACTOR DISCHARGE HM-77375 M63-10908 10-23
FLARED-COME PROJECTED AREAS M63-10698 02-20	PROMIMENCE SIZE AND POSITION OF SOLAR PROMIMENCES AND THEIR CLASSIFICATION BY MENZEL-EVANS SCHEME AFCRL-62-1062 N65-12122 05-28
SA HYPERVELOCITY PROJECTILE CF BALLISTICS MICROMAVE MEASUREMENT OF PROJECTILE KIMEMATICS MITHIN LAUNCHER BARRELS	CLASSIFICATION OF SOLAR PROMINENCES FOR SUNSPOT CYCLE NO. 19 AFCRL-63-200 N63-14917 10-05
AEDC-TOR-62-213 N63-10131 01-15 CALCULATIONS FOR PROPELLANT GUN PERFORMANCE N01TR-61-29 N63-10140 01-26	POSITION, AREA, AND BEHAVIOR CLASSIFICATION OF SOLAR PROMINENCES FOR SUNSPOT CYCLE NO. 19 AFCRL-63-205 N63-14551 10-28
EFFECT OF VACUUM ON PENETRATION CHARACTERISTICS OF PROJECTILES INTO FINE PARTICLES NASA-TN-0-1519 N63-12244 05-23	REPORT ON SOLAR ACTIVITY - FLARES, PROMINENCES, FILAMENTS, SURGES, AND RADIATIONS 1GY SOLAR ACT. REPT. SER22 N63-15953 12-28
DEPENDENCE OF SHOCK WAVE STRENGTH ON PROJECTILE SHAPE AND REVIEW OF SHAPE FACTOR THEORY - WING- BODY CONFIGURATION N63-13832 09-02	SOLAR FLARES AND PROMIMENCES - EXCITATION CONDITIONS N63-17903 16-05
POSSIBLE CAUSALITY OF RADIATION OVERSHOOTS IN MAKE OF PROJECTILE BY DECREASING TEMPERATURE -	CLASSIFICATION OF SOLAR PROMINENCES FOR SUMSPOT CYCLE NUMBER 19 OBSERVED DURING 1958 AFCRL-63-458 N63-18278 17-05
MYDROCARBON ABLATORS AE62-0814 N63-13969 09-30 VACUUM-AIR MISSILE BOOST CONCEPT - ESTIMATION OF	SOLAR PROMINENCES FOR SUNSPOT CYCLE NO. 19 - 1959 CLASSIFICATION OF SOLAR ACTIVITY AFCRL-63-666 NO. 20-28
TERMINAL VELOCITY IMPARTED TO PROJECTILE IN LAUNCH TUBE ARDO-N-62-4 N63-14611 10-31	PROPAGATION SA CRACK PROPAGATION
HYPERVELOCITY IMPACT - SPALLATION PRODUCT BY HIGH VELOCITY PROJECTILES PENETRATING THIN METALLIC TARGETS N63-14740 11-33	SA ELECTROMAGNETIC PROPAGATION SA RADIO PROPAGATION SA SHOCK MAYE PROPAGATION SA SOUND PROPAGATION
REASUREMENT OF RADIATION FROM PROJECTILES IN HYPERSONIC FLIGHT CARDE-TM-740/63 M63-16148 13-01	SA TRANSEQUATORIAL PROPAGATION THE INFLUENCE OF TURBULENT SCATTERING ON THE PROPAGATION OF A POLYDISPERSED ADMIXTURE JPRS-16492 N63-10539 01-12
EVALUATION OF METAL FORMING TECHNIQUES FOR TITAMIUM HELMETS - PROJECTILE PENETRATION RESISTANCE - STRUCTURAL DYNAMICS	HIGH FREQUENCY PROPAGATION SIMULATION RADC-TOR-62-473 H69-10552 01-12
N69-16615 14-10	CONTINUOUS PROPAGATION OF HICROORGANISMS N63-11000 09-16
EFFECT OF TARGET TEMPERATURE ON PROJECTILE PENETRATION AND CRATERING NACA-RH-L50E14 N63-18043 16-18	EXOSPHERIC PROPAGATION OF BACKSCATTER SIGNALS AFCRL-62-348 N63-11896 04-08
NUCLEAR INTERACTION OF 900 MEV ALPHA PARTICLES IN STUDY OF MELIUM NUCLEI AS PROJECTILES NYD-10269 M63-10146 16-23	TIME VARIATIONS OF POLAR CAP ABSORPTION ASSOCIATED WITH SOLAR COSMIC RAY BOMBARDHENT - RIGHETER INVESTIGATIONS UAG-RIZ7 N63-12198 05-12
HYPERVELOCITY IMPACT OF SOLID PROJECTILES INTO HONOGENEOUS TARGET MATERIAL NAS-20729 21-33	ASYMPTOTIC CONVERGENCE OF RENORMALIZED PERTURBATIVE EXPANSIONS OF PROPAGATION RENMELS
OBSERVED RADIATION PATTERN DURING ACTUAL REENTRY AND SPECTROGRAPHIC STUDIES OF RADIATION FROM PROJECTILES IN HYPERSONIC FLIGHT	SOLAR COSMIC RAYS - PROPAGATION AND EMERGY SPECTRA IAS PAPER-63-3 N63-12001 07-28
CARDE-TH-1564/63 2000001/0401 2000 N63-20919 NA 21-23	PROPAGATION OF ULTRASONIC MAYES IN LIQUIDS BYDE AS

OPTICAL METHODS		
OPTICAL METHODS AROD-2510-10	N63-13055	07-23
AEROTHERMODYNAMICS - TRANSPORT I AND PROPAGATION	PROPERTY, STI N63-14821	RUCTURE 11-02
MODAL RESPONSE IN COMPLEX PLANE CONSTANT IN RECTANGULAR GUIDE WE MAGNETIZED LOSSLESS FERRITE		
GEOLOGY AND GEOPHYSICS APPLIED TO PROPAGATION THROUGH ROCK STRATIFICATION	FICATION OF	EARTHS
AFCRL-63-40	N63-15106	11-08
SYMPOSIUM ON AEROSPACE RADIOBIOG SPECTRA AND COMPOSITION OF SOLAF VARIATIONS AND PROPAGATION FROM	COSMIC RAYS SUN TO EARTH N63-15286	7 5, TIME 12-28
SOLAR COSMIC RAY EVENT OF SEPTEM PROPAGATION OF RAY THROUGH INTER	MBER 1960 - 1 RPLANETARY SI N63-15314	PACE 12-28
STRESS WAVE PROPAGATION FROM OBS SURFACE OF INFINITE PLATE	N63-17069	ON 15-20
VIBRATORY PHENOMENA AND INSTABLE SUSTAINED DETONATIONS IN GASES VELOCITY MEASUREMENTS	- PROPAGATION N63-18546	17-26
PRESSURE PULSE PROPAGATION MODES	S IN COMPRES	SIBLE
AFCRL-63-682	N63-19649	7245
ACOUSTICS - NOISE SOURCES AND PE FLIGHT VEHICLES	N63-20880	21-23
PROPAGATION OF PULSES IN COMPRES	SSIBLE FLUID	
AFCRL-63-882		21-11
WEST FORD PROJECT FOR BELTS OF (SPACE FOR RADIO SIGNAL PROPAGAT) JPRS-21142		22-32
POLARIZATION OF SYNCHROTRON RADI	DWE START	
QUASI-TRANSVERSE PROPAGATION REG NASA-TM-X-50725		
CORRELATION BETWEEN WHISTLER-MODE HIGH FREQUENCY NORTHSCATTER	DE PROPAGATI	ON AND
SEL-63-082	N63-22678	
SOLID STATE NOISE GENERATORS - N WHITE NOISE AND AVALANCHE BREAK		SMS
MICROPHYSICAL MECHANISMS OF RAIN WARM CLOUDS JPRS-21495		IN 24-21
DPANE	111111111111111111111111111111111111111	SA SOUN
DESCRIPTION AND SIMULATED LIFE THERMOELECTRIC GENERATOR OPERATION		
NITRATION OF 3,3,3-TRIFLUORO-1,2 PA-TR-3055	N63-15950	
STABILITY OF PROPANE-OXYGEN FLAP PRESSURES IN TURBULENT FLOW		17-26
DIRECT ELECTRICAL IGNITION OF FR DETONATION WAVES FOR THREE GASEC ETHYLENE, PROPANE, AND HYDROGEN		NO NE
FLAME STRENGTH OF PROPANE-DXYGEN PRESSURES IN TURBULENT FLOW	119203-82302	LOW
PELLANT SEPROPELLANT GASE BONDED PROPELLANT SHYBRIO PROPELLANT	VOG VITAM	1777
HYBRIO PROPELLANT HYPERGOLIC PROPELLANT LIQUID PROPELLANT SQLIO PROPELLANT		

SUBJECT INDEX		
EXPLOSIVE FUEL	THE WAR I	WAY &
CALCULATIONS FOR PROPELLANT GUN NOLTR-61-29	PERFORMANCE N63-10140	01-26
ELECTROEXPLOSIVE DEVICES - SAFE AMC-RK-TR-62-10	TY N63-10748	02-17
DEFORMATION AND STABILITY OF SPI SUBJECTED TO ASYMMETRICAL LOAD!		02-3)
CHRONIUM MICROSTRUCTURAL DISLOC	ATIONS RELATE	D TO
BRITTLENESS JPRS-16591	N63-10984	02-18
SPACE PROGRAMS SUMMARY NO. 37-1 1962 - DEEP SPACE INSTRUMENTATI JPL-SPS-37-18, VOL. II		03-10
THERMAL ASPECTS OF LONG-TERM ST	DRAGE OF	110/ 2
PROPELLANTS ON LUNAR SURFACE ARS PAPER-2690-62	N63-11273	03-26
TEMPERATURE STRATIFICATION OF C PROPELLANTS	RYDGENIC N63-11329	03-26
EVALUATION OF PROPELLANTS FOR M COLLOTOAL ION ELECTRICAL PROPUL ASD-TR-61-150, PT. II	OLECULAR AND SION ENGINES N63-11569	04-26
CLOSED LOOP HEAT TRANSFER APPAR MONOPROPELLANTS PA-TM-1119	ATUS FOR TEST	06-13
PROPELLANTS FOR LUNAR LANDING -		142370
DENSITY IMPULSE, IGNITION, AND NASA-TH-D-1723		06-27
COMBUSTION OF METALS - PROPELLA BURNING, REACTION KINETICS AND CAL-86-P	NTS, IGNITION FLAME TEMPER N63-13109	ATURE 07-26
ADVANCED HIGH ENERGY SPACE STOR	ABLE PROPELLA	ANT -
OXYGEN BIFLUORIDE, DIBORANE RMD-5507-F	N63-13249	07-26
DISSOCIATION OF NITROGEN BIFLUO HIGH ENERGY PROPELLANT OXIDIZER		- 79
EXP-223/1 - 17 4 13 4 2 1 24 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3	N63-13461	08-07
OPERATIONAL CHARACTERISTICS DET HIGH ENERGY PROPELLANTS	ERMINATION OF N63-13605	08-26
INITIATION OF DETONATION IN EXP PROPELLANTS RESULTING FROM COMB	USTION	ATES
INSTABILITIES	N63-14069	09-26
NITRYL CHLORIDE - CHEMICAL REAC PURIFICATION, EXPLOSIVE PROPERT PROPELLANTS & BINDERS - BIBLIOG SB-62-63	IES & USE IN	09-07
	463-83366	09-01
GAS GENERATORS FOR AUTOMATICALL BATTERIES - NEW PROPELLANTS	N63-14158	09-06
SHOCK WAVE INTERACTION WITH A B	URNING PROPER	LLANT - 10-26
CONTAMINANT INTRODUCTION SYSTEM CRYOGENIC PROPELLANTS	FOR STORABLE	E AND
RTD-TDR-63-1024	N63-14718	11-26
RADIATION AND HEAT EFFECTS ON S	OLID PROPELL	ANT

ENTR PROPI ATD-

SPACI PROPI

SPACI

PROP CONT SOLI

DETO EXPL

INIT REAC FRAC

MONO

JPL-

TURB

PROP

MEAS MSL-

ALUM ROCK BURN

CONT OF R

VITR

MATH DETO OXYG

STOR AERO LRP-

TOXI

PROP GA-3

HATE ENER IDA-

PROP IN C TO 3 NASA

ANON HIGH PA-T

HITR GUN BRL-SPAC

ROCK

CHEM

CF CF

ELLANT DECOMPOSITION 11-26 RAI-314 N63-14852

INTERACTION OF ACOUSTIC OSCILLATORY PRESSURE FLUCTUATION WITH BURNING OF SOLID COMPOSITE PROPELLANTS - ANALYSIS OF COMBUSTION INSTABILITY M63-15035 11-

APPLICATION OF CRYOGENIC PROPULSION TO SPACE MISSIONS - ENERGY REQUIREMENTS, SOLAR PROBE PAYLOADS, ABLATION, RELIABILITY ENGINEERING 12-27

INSTABILITY OF PROPELLANT COMBUSTION - FLAME ZONE-OSCILLATING PRESSURE FIELD INTERACTION PRODUCING

-26 -17

-33 0 -18

-10

-26 1-24

-26

-13 AND 5-27

RE 7-26

7-26

9-07 3-26

9-26 ION, 9-07 3-06 HT -0-26 ND 1-26

1-26

ΓΥ 1-26

2-27

MINDAL MAKES MOS-13401	12-20	The second of the second	M03-22219	23-20
MANDLING AND STURAGE OF MITROGEN TETROXIDE	12-26	NEUTRON CONTRIBUTIONS TO LITHIUM PROPELLANT HEATING		23-27
PACE SCIENCE - EARTH-LUNAR MISSIONS - HIGH-E	NERGY	COMBUSTION PRESSURE OSCILLATIONS BURNING PREMIXED OR UNMIXED GASEC F-63-2	IN ROCKET NO DUS PROPELLAN N63-22439	TORS 175 23-26
	13-29 LITY,	OPTIMUM MATERIALS FOR CRYOGENIC I AEROSPACE VEHICLES	WELED RECOVE	RABLE
MAINTAINABILITY N63-16006	13-01	ASD-TDR-63-798	N63-22903	The second
PROPELLANT SENSITIVITY - EFFECTS OF ENVIRONME CONTROL & SURFACE COATING ON IMPACT DETONATION SOLID COMPOSITE PROPELLANTS IN CONTACT WITH M N63-16261	N OF	MISSILE PROPELLANT EFFECT ON ENVI POLLUTION AMRL-TDR-63-75	N63-23574	がはなる場合で
DEFONATION INITIATION MECHANISH FOR SOLID EXPLOSIVES - SHOCK INDUCED FORMATION OF HYDRO L HYDROXYL IONS CAUSING HYDROCARBON REARRANGE	GEN HENT	ATTENDED TERROR TERROR	N63-23677	24-26
163-16262		F THRUSTOR	HE (SE YOR SHE HERBERYERODISHE	CERTIFIE
INITIATION OF EXPLOSIVES BY FRICTION - ATMOSP REACTIONS WITH NEW EXPLOSIVE SURFACES FORMED FRACTURE AND ABRASION - COMPOSITE PROPELLANTS	HERE	PROGRESS IN PROPELLANT ACTUATED	N63-12205	05-27
M63-16263 MONOPROPELLANT HYDRAZINE - HYDRAZINE-NITRATE	13-26	PROPELLANT ACTUATED DEVICES - THI INITIATORS, CATAPULTS, PROPELLAN	unai onai	06-27
MIXTURES	14-26	PYROTECHNIC OUTDOOR WARNING SYST	的第三人称单数是正规的。特	NEST MERCH
TURBINE PUMP MISSILE PROPELLANT - TRANSONIC S	SPEED	USING PROPELLANT ACTUATED DEVICE		14-10
NACA-RM-E57J29 N63-17466 PROPELLANTS FOR CROSSED FIELD MAGNETOHYDRODYN ACCELERATION - PLASMA TEMPERATURE BY PHOTOGRA		EMERGENCY CREW ESCAPE SYSTEM US! DETONATOR CORD FOR ENERGY TRANSH PROPELLANT ACTUATED DEVICES	ISSION -	STEER S
MEASUREMENT	16-24	FA-R-1641	N63-17473	15-06
ALUMINUM ADDITIVE IN UNSTABLE COMBUSTION OF S	SOLID	PROPELLANT ACTUATED DEVICE /PAD/ CONTACT VELOCITY OF AIR DELIVERE PARACHUTE SYSTEM	D CARGO -	ROUND
BURNING RATES IN FLAME ZONE N63-18533		R-1671 XET OF SUPERIOR HOL		21-26
UNCODLED DEFLECTORS FOR MISSILE LAUNCHERS - E CONTENT OF PROPELLANTS - THERMODYNAMIC PROPER OF ROCKET EXHAUSTS VITRO-2331-1-60 N63-18748		ROPELLANT BINDER NITRYL CHLORIDE - CHEMICAL REACT PURIFICATION, EXPLOSIVE PROPERTI PROPELLANTS & RINDERS - RINITARY	IONS, PREPAR	ATION,
NATHEMATICAL MODEL AND TESTS OF ROTATION	or property.	PROPELLANTS & BINDERS - BIBLIOGR SB-62-63	N63-14073	09-07
DETONATION WAVE ROCKET ENGINE USING HYDROGEN	AND 18-27	SOLID PROPELLANT INVESTIGATION - VOLUME CHANGE, BINDER-OXIDANT IN FAILURE MODES, PROPELLANT MICROS	TERFACE AND	AND ST
STORABLE LIQUID PROPELLANTS - NITROGEN TETROS AEROZINE 50 AND RELATED COMPOUNDS	HEAD STEEL S	TO THE SEA PROPERTY OF ANY AREA WAS ANY ANY	N63-14617	SHTHY2
TOXICITY AND SAFETY HAZARDS OF SOME ROCKET	18-26 Pf	SOLID PROPELLANT GRAIN DESIGN E173-62	DIT CHA ROTTA	01-26
PROPELLANTS N63-18949	18-16	GRAVITATIONAL STRESSES IN A SOLI	D PROPELLANT	01 - 120
PITCH BINDER FOR GRAPHITE-BASED FUELS AND ROC PROPELLANTS		GRAIN PIBAL-660	N63-11187	03-26
CA-3985 1201 - CAZ N63-19135	18-07	INTERNAL DISPLACEMENTS IN SOLID-		
MATERIALS PROBLEM FOR THROAT INSERTS OF HIGH ENERGY SOLID PROPELLANT ROCKETS 10A-TR-62-19 N63-19272	18-26	USING CYLINDRICAL, UNFILLED-URET UNDER UNTAXTAL COMPRESSION	HANE SPECIME N63-11931	
PROPELLANT REQUIREMENTS TO SUSTAIN SPACE VEHI IN CIRCULAR EARTH ORBIT IN ALTITUDE RANGE OF	ICLE	SURFACE STRAINS IN CASE-BONDED MEMGINES AND STUDIES OF INTERNAL SOLID PROPELLANT GRAINS		SIN
TO 300 MILES	18-27	SOLID PROPELLANTS USING THE POND DIFFERENT BURNING RATES IN THE S		SA-SAG
ANOMALOUS BALLISTIC BEHAVIOR OF PROPELLANTS I	UNDER	CHOTTANTIN DIATERATED AND THE	N63-12464	06-26
PA-TM-1228 N63-19345	18-26	ANALYSIS OF SOLID PROPELLANT GRA	IN DESIGN N63-13566	08-26
HITROCELLULOSE PROPELLANT FOR TRAVELING CHARGON	GE ANTA	CONFORMAL MAPPING AND STRESSES I	ween the said	Annada.
BAL-HENO-1485 N63-19746	19-26	GRAINS USING 18M 7090 TEAM-241	N63-13921	09-20
SPACECRAFT COLLOIDAL GENERATOR FOR ELECTROST/ PROPULSION N63-20216	20-27	APPLICATION OF PHOTOELASTICITY I INDUSTRY - STRESS ANALYSIS OF PR	W MISSIFE OF	INSTRUCT
NOCKET PROPELLANT PERFORMANCE FACTORS N63-20500	20-26	TATE OF PROPOSABLE SEE STREET	N03-14259	10-23
CHEMICAL CORROSION OF ROCKET LINER MATERIALS	AND	CONFORMAL MAPPING AND STRESS DET SOLID PROPELLANT ROCKET GRAINS	元明马斯的范围	PAALA
PROPELLANT PERFORMANCE STUDIES		5-38 LECYROLITEC AMERICALING	N63-14303	10-26

06-27

07-15

14-27

19-27

22-26

10-27

.

.

PROPE VI

DI

PR

SI

EF

ROPE

02-11

03-11

05-11

N63-12247

N63-12348

CI

2

LI RI PI

PR

PROPELLANT STORABILITY

OSCILLATORY BURNING IN SIDE	E-RENTED CYLINDRI	CAL	PROPELLA
CHAMBER FOR STUDYING BURNIE	NG OF END-BURNING		CF CONT
PROPELLANT GRAINS - COMBUS		12-26	THEOR
	1103-13373	12-26	VOLUM
STRUCTURAL RELIABILITY OF	PROPELLANT GRAINS	TUBEROO	INTER
COMPUTER OUTPUT FROM CURVE	FIT STUDIES		
LPC-556-H-1	N63-15863	13-20	FUMIN SSD-T
DEFORMATION OF SOLID PROPER	LANT GRAINS UNDER	RAXIAL	330-1
ACCELERATION LOADS			PROPE
P-62-27	N63-15893	13-26	DENSI
DEFORMATION AND STRESS CALC	IN ATTOMS EOD AVIA	MILV	NASA-
ACCELERATED CASE-BONDED SOL	ID PROPELLANT GRA	AINS OF	MASS
FINITE LENGTH	N63-15894	13-26	PROPE
BEEGRATION OF COLUMN WICE	SELACTIC CVI INDE		NASA-
DEFORMATION OF SOLID, VISCO PROPELLANT GRAINS OF INFINI	TE LENGTH AND ARE	BITRARY	LIQUI
CROSS SECTION UNDER AXIAL	CCELERATION LOADS	5	CYLIN
		13-26	CHCCH
INTERNAL DISPLACEMENT AND S	TRESS IN SOLID	NR ALPROPE	AND D
PROPELLANT GRAINS	N63-17389	15-26	EM-11:
STRUCTURAL ANALYSIS OF VISC	DELASTIC SOLID		LIQUI
STRUCTURAL AMALYSIS OF VISC PROPELLANT GRAINS AIAA PAPER-63-284	N63-17795	16-33	HOUNT
		Water Park	JPL-TI
THERMAL STRESS STUDY OF CAS			LIQUII
PROPELLANT GRAINS EPC-578-F-1		21-26	NASA-
		DP 20	0 - 100
THERMAL STRESS OF SOLID PRO	PELLANT GRAINS UN	IDER	FLUID
VARIOUS ENVIRONMENTAL CONDI	N63-20831	21-24	ROCKET RTD-TI
A6E3-62-19A	V-1 131 111 111	21-20	K10-11
OPELLANT OXIDIZER			ALUMIN
F HIGH ENERGY OXIDIZER SOLID PROPELLANT OXIDIZER S	WHTHEETE EL HORTA		PROPEI NASA-C
		19 3 10 1/9	MASA-
MRB-2022Q1	N63-10993	02-26	MONTE
		1976 F - 1879	IN LIC
SUPERSONIC COMBUSTION AND MODIFICERS	IXING OF FUELS AN		TANK LA-290
ARL-62-467	N63-11029	03-26	
		a a sella	BAFFLE
COMPATIBILITY OF LUBRICANTS OXIDIZERS - ORGANIC FLUORIN	MITH WISSILE FUE	LS AND	SLOSHI NASA-C
A62-13	N63-13326	08-07	nasa .
TRISMEDITAL SPECIFIC AND DANS	COURSE L'ENVIRONMENT		PROPELLAN
DISSOCIATION OF MITROGEN BI HIGH ENERGY PROPELLANT OXID		THULLDOW	VIBRAT
EXP-223/1	N63-13461	08-07	
TATE STATE OF PERSONS	The Last Applications		HEATED
SYNTHESIS OF NEW OXIDIZERS PREPARATION AND PURIFICATION	FOR SOLID PROPELL	ANTS -	FOR LI
FLUORIDE	H IN LIQUID DATGE	Bions	315-11
HAR 303303	N63-14221	09-26	SPACE
SOLID PROPELLANT INVESTIGAT		400	TRANSF
VOLUME CHANGE RINDER-OXIDA	ION - DEPURMATION	AND	ZERO-G
VOLUME CHANGE, BINDER-OXIDA FAILURE MODES, PROPELLANT M	ICROSTRUCTURE		METALL
CHARGE THANKS STREET, NO.	N63-14617	10-26	NASA-C
CHEMICAL SYNTHESIS OF NEW O	VID17685 608 501 1	04100	PROPELLER
PROPELLANTS	AIUIZENS FOR SOLI	0	SA THREE
MRB-2022Q3	N63-16374	14-26	SYNCHA
		(8-13 km)	AIRCRA FTD-T1
COMPATIBILITY OF GREASE LUB FUELS AND OXIDIZERS FOR MIS	CILEC	10	F10-11
FOELS AND UNIVIEERS FOR HIS	N63-17832	16-17	PROPEL
THE PART OF THE PA			WING P
BINARY COMBINATIONS OF ENER CONTAINING OXIDIZERS - COND	GETIC FLUORINE	roue	SIX-PR NASA-T
OF COMPOUNDS WITH CHLORINE	& FLUORINE IONS	1043	MASA-I
MRB-2022Q4	N63-19102	18-07	THRUST
		100	HYDROF
PROPELLANT OXIDIZERS FOR AIR LIQUID & SOLID PROPELLANT RE			DTMB-1
FUEL CHEMISTRY		ERYADO SADALY	ALUNIN
FTD-TT-62-1417/1626364	N63-19645	19-26	TTRI-5

N63-18342 17-26

OXYGEN DIFLUORIDE-DIBORANE PROPELLANTS FOR USE IN SPACE PROPULSION SYSTEMS - PERFORMANCE AND SPACE SYDRABILITY ANALYSIS N63-18342 17-20

OPELLANT TAN F CONTAINER F FUEL TANK THEOREMS FO VOLUME OF E INTERNAL PR
FUMING NITR SSD-TDR-62-
PROPELLANTS DENSITY IMP NASA-TN-D-1
MASS OF LIQ PROPELLANT NASA-TN-D-1
LIQUID SLOS
ENGINEERING AND DISPENS EM-1110-345
STRUCTURAL LIQUID-PROP HOUNT JPL-TR-32-1
LIQUID DYNA NASA-CR-502
FLUID EXPUL ROCKET ENGIN
PROPELLANT NASA-CR-508
MONTE CARLO IN LIQUID H' TANK LA-2909
BAFFLE SYSTI SLOSHING IN NASA-CR-5200
PELLANT TRAI
HEATED-HYBRI FOR LIQUID I JPL-TR-32-3
SPACE SCIENCE TRANSFORMER
ZERO-GRAVITY METALLIC DEV NASA-CR-507
THREE-BLADI SYNCHROPHASI AIRCRAFT BY FTD-TT-62-11
PROPELLER SI WING PRESSUR SIX-PROPELLE NASA-TN-D-1
THRUST DEDUC HYDROFOIL DTMB-1603

R CHANGE OF VOLUME AND MOMENTS OF LASTIC TANKS SUBJECT TO ARBITRARY MESSURES N63-10497 IC ACID SERVICING SENI-TRAILER N63-11022 FOR LUNAR LANDING - HIGH SPECIFIC AND ULSE, IGNITION, AND STORAGE UID PROPELLANT WITHIN SPACECRAFT TANK SUBJECTED TO ZERO GRAVITY N63-13303 HING IN 45-DEG SECTOR COMPARTMENTED N63-13630 TANKS AND DESIGN - STORAGE, DISTRIBUTION, ING OF AIRCRAFT AND VEHICULAR FUELS N63-14311 DYNAMIC STABILITY OF 6000-LB THRUST ELLANT ROCKET ENGINE - DIRECT TANK N63-16440 HICS IN ROCKET PROPELLANT TAN N63-17125 SION SYSTEMS FOR LIQUID PROPELL NE PROPELLANT TANKS AT ZERO GRAVITY N63-19447 PULSION DIAPHRAGH FOR SPHERICAL N63-19991 CALCULATION OF NEUTRON THERMALIZ YDROGEN OF NUCLEAR ROCKET PROPELLANT N6 3- 21656 EM DEVELOPMENT TO PREVENT PROPELLANT TANKS OF ROCKET VEHICLES N63-23602 SEER ESTING OF LIQUID OXYGEN PROPELLANT DUT N63-14122 09-77 ID GENERATED GAS PRESSURIZATION SYSTEM PROPELLANT TRANSFER IN ROCKET VEHICLES 75 N63-14483 10-77 PROPELLANT FLOW METER - INTERVAL E N63-16008 13-POSITIVE EXPULSION TECHNIQUES -N63-19964 PROPELLER ING OF PROPELLER BLADES OF MULTIENGIE AUTOMATION 66/162 N63-10448 LIPSTREAM EFFECTS AS DETERMINED FROM RE DISTRIBUTION OF A LARGE-SCALE ER VTOL MODEL AT STATIC THRUST 509 N63-10533 OI-TION DUE TO A PROPELLER BEHIND A N63-10597 ALUMINUM ALLOY MODEL PROPELLERS TTR1-52 FOUR-PROPELLER STOL TRANSPORT AIRCRAFT WITH BOUNDARY LAYER CONTROL ON HIGHLY DEFLECTED F

NASA-TN-D-1647

LIFTING SURFACES IN HELICOIDAL MOVEMENT PROPELLER BLADE VORTEX N63-12

01-20

03-26

06-27

07-15

10-24 T.

14-27

15-11

19-27

19-17

TION

22-26

24-26

DUCT 09-27

STER

CLES 10-2

LAVAL

13-15

NGINE

ROH

02-11

03-1

INT

WIND-TUNNEL TESTS OF TWO VTOL PROPELLERS IN M63-13221 07-03 PROPELLER DESIGN METHODS BASED ON VORTEX THEORY -OPEN WATER AND CAVITATION TUNNEL TESTS N63-13371 08-11 AERODYNAMIC DESIGN OF PROPELLERS AND DUCT SYSTEMS FOR ANNULAR JET GROUND EFFECT MACHINES AERODYNAMIC CHARACTERISTICS OF FLAPPING AND RIGID PROPELLER BLADES AND CYCLE PITCH CONTROL NASA-TN-D-1774 N63-15771 13-03 N63-15771 13-03 ACQUISTIC STUDY OF GASEOUS MICRO-BUBBLES IN BOUNDARY LAYER AND PROPELLER WAKES N63-16969 14-11 PROPELLER WHIRL INSTABILITY IN V/STOL AIRCRAFT - PROPELLER THRUST, ANGLE OF ATTACK AND FLAPPING EFFECTS M63-19169 18-04 WIND-TUNNEL MEASUREMENT OF PROPELLER MHIRL-FLUTTER SPEEDS AND STATIC-STABILITY DERIVATIVES AND COMPARISON MITH THEORY NASA-TN-D-1807 N63-19652 19-23 DETERMINATION OF OPTIMIZED PROPELLERS FOR GROUND EFFECT MACHINES N63-20119 20-03 PROPELLERS, SHROUDED PROPELLERS, AND ROTORS
NG3-20126 20-03 SHROUDED PROPELLER TESTING STAND N63-20127 20-03 SHROUDED PROPELLER TESTING STAND N63-20128 20-03 ROTORS AND PROPELLERS OF GLASS FIBER REINFORCED PLASTICS N63-20129 20 20-03 DYNAMIC LOAD PROBLEMS OF PROPELLER DRIVEN V/STO AIRCRAFT N63-20357 20 20-04 STRUCTURAL DESIGN OF V/STOL AIRCRAFT RESULTING FROM DYNAMIC LOAD PROBLEM AND NONUNIFORM FLOW OF SHROUDED PROPELLERS N63-20361 20-04 MOPELLER DRIVE DYNAMICS OF PROPELLER REMOTE DRIVES - BENDING VIBRATIONS, TORSIONAL VIBRATIONS N63-14662 10-03 AERODYNAMIC CHARACTERISTICS OF PROPELLER-ORIVEN VTOL AIRCRAFT - HOVERING, PROPELLER DRIVES N63-14685 10-04 WIND TUNNEL STUDIES OF VTOL AIRCRAFT - PROPULSIVE EFFICIENCY & FLIGHT PERFORMANCE OF AIRCRAFT WITH PROPELLERS, DUCTED FAMS, AND ROTORS SIMULATOR STUDY OF LATERAL-DIRECTIONAL HANDLING QUALITIES OF PROPELLER STOL TRANSPORT AIRPLANE N63-15526 12-04 PELLER EFFICIENCY EFFECT OF AXIAL POSITION OF PROPELLER ON PROPULSION CHARACTERISTICS OF SUBMERGED BODY OF N63-15923 13-27 HEART THE PROTESTS WHEN IN PERTY
CHEMICAL PROPERTY
ELASTIC PROPERTY
ELCTRIC PROPERTY
ELECTRIC MANEUVERING IN CERTS GRAVERY

THERMODYNAMIC PROPERTY
THERMODYNSICAL PROPERTY
TRANSPORT PROPERTY

PROPORTIONAL CONTROL
FLUTD AMPLIFICATION SYMPOSIUM - BISTABLE ELEMENT,
TWO-DIMENSIONAL JETS, FLOW VISUALIZATION,
PROPORTIONAL CONTROL, ROCKET THRUST VECTORING
N63-13380 08-11 PROPORTIONAL FLUID CONTROL - FLUID AMPLIFICATION -FLOW CONTROLLERS M63-13382 08-11 GAINS IN PRESSURE, VOLUME FLOW AND POWER OF PROPORTIONAL FLUID AMPLIFIER ... N63-13401 ... 08-11 PROPORTIONAL POWER STAGES FOR IMPEDANCE MATCHING FLUID AMPLIFIER OF THREE DIMENSIONAL TYPE N63-13404 08-PROPORTIONAL COUNTER SPECTROMETER FOR SOLAR X-RAY MEASUREMENT - DESIGNED TO BE MOUNTED ON AEROBEE HI ROCKET TELEMETERING MONOCHRONATOR AFCRL-62-1105 N63-13801 09-15 PROPELEGRES OUCTED PANS, AM PROPORTIONAL NAVIGATION
CF GUIDANCE SYSTEM
PROPORTIONAL NAVIGATION GUIDANCE SYSTEMS - RADAR
ANTENNA POSITIONING EFFECTS ON SPEED OF RESPONSE
NACA-RM-AS2E27 N63-12539 06-22 PROPULSION
SA ELECTRIC PROPULSION
SA ELECTROTHERNAL PROPULSION
SA LOW THRUST PROPULSION
SA NUCLEAR-ELECTRIC PROPULSION
SA NUCLEAR PROPULSION
SA PLASMA PROPULSION
SA PLASMA PROPULSION
CF ENGINE ENGINE TON ENGINE, TONIC PROPULSION CHEMICAL ROCKET PROPULSION FOR SPACE
NG1 PAPER-53 01-27 SPACE PROGRAMS SUMMARY NO. 37-17 - VOL IV, SPACE PROGRAMS - TELECOMMUNICATIONS - GUIDANCE AND CONTROL - PROPULSION JPL-SPS-37-17, VOL. IV N63-10939 02-MASA-UNIVERSITY CONFERENCE ON SPACE - NUCLEAR, CHEMICAL AND ELECTRIC PROPULSION - AERODYNAMICS, GAS DYNAMICS AND PLASMA PHYSICS - VOL II NASA-SP-IL, VOL. 2 03-29 PERIGEE PROPULSION FOR ORBITAL LAUNCH OF NUCLEAR NASA-TR-R-140 : 391 NASS SOR TRANS N63-11701 31 04-27 LIFT FAN FLIGHT RESEARCH AIRCRAFT PROGRAM -APPLICATION OF FIELD-ION EMISSION TO ELECTROSTATIC ROCKET ENGINES - IONIZATION LIFETIMES OF HYDROGEN, LITHIUM, SODIUM, RUBIDIUM, CESIUM, AND KENOM NASA-TN-D-1563 05-30 OPTIMUM DESIGN OF DUCT AND FAN SYSTEMS FOR GROUND EFFECT MACHINE PROPULSION AP-5062-R N63-12242 05-27 **SEVALUATION OF FLAME HOLDERS FOR AFTERBURNERS WITH HIGH INLEY VELOCITY MACA-RM-E56D10 06-02 N63-12510 06-02 ANALYSIS OF AIR-TURBOROCKET ENGINE PERFORMANCE INCLUDING EFFECTS OF COMPONENT CHANGES NACA-RN-E55H04A N63-12524 06-2 COMBINED COMPRESSOR GOOLANT INJECTION AND AFTERBURNING FOR TURBOJET ENGINE THRUST AUGMENTATION NACA-RR-E54GOS N63-12531 N63-12531 06-27 CESIUM ELECTRON BOMBAROMENT ION SOURCE FOR THE ELECTROSTATIC PROPULSION

IAS-PAPER-63-75 N63-	-12896 07-27	HYPERSONIC PROPULSION SYSTEMS RAC-964 N63-10996	02-
SPACECRAFT PROPULSION REQUIREMENTS FO	DR LUNAR	CALCULATED PERFORMANCE OF A MERCURY-COMPRESSI	
THE PURISH STATE OF THE PROPERTY OF THE PARTY OF THE PART	-12897 07-27	JET POWERED AIRCRAFT USING NUCLEAR REACTOR AS ENERGY SOURCE	3.98
SPACE PROGRAMS SUMMARY NO. 37-18 - VO DEC 1962 - SPACE PROGRAMS, GUIDANCE, PROPULSION JPL-SPS-37-18, VOL. IV N63-	ENGINEERING,	NACA-RM-E51F14 N63-12538 AERODYNAMIC CHARACTERISTICS OF AIRCRAFT WITH LIFTING-FAN PROPULSION SYSTEM FOR V/STOL - F	
SPACE PROGRAMS SUMMARY NO. 37-19 - VO	OL IV, DEC	SCALE WIND TUNNEL TAS PAPER-63-27 N63-12889	
1962 TO JAN 1963 - PROPULSION, TELECO INSTRUMENTS, MECHANICS, GUIDANCE JPL-SPS-37-19, VOL. IV N63-	MACH TURNATUR	PLASMA CURRENT SHEET DYNAMICS - THERMONUCLEAR FUSION - SPACE PROPULSION	
SPACE FLIGHT TECHNOLOGY - PROPULSION, AND AERODYNAMICS N63-		A-2 N63-12961 HIGH ENERGY LIQUID CHEMICAL PROPULSION SYSTEM	MS -
REVIEW OF BASIC PRINCIPLES OF V/STOL FUEL CONSUMPTION AND PROPULSIVE EFFIC	CIENCY DURING	PART I, PROPELLANT SELECTION FOR SPACE MISSI N63-13081	07-
HOVERING AND CRUISE FLIGHT 103-		HIGH ENERGY LIQUID PROPULSION SYSTEMS - PART OZONE FLUORIDE N63-13082	07-
PROPELLERS, DUCTED FANS, AND ROTORS	14686 10-04	HAZARDS OF ELECTROMAGNETIC RADIATION TO ORDM /HERO/ - RF CHARACTERISTICS OF ELECTROEXPLOS DEVICES - MISSILE PROPULSION SYSTEM N63-13696	
ANALYSIS OF WEIGHT PARAMETERS INFLUEN PROPULSION REQUIREMENTS OF ORBIT-LAUN MASA-TN-D-1525	ICE ON	VARIABLE-THRUST PROPULSION FOR SOFT-LANDING VEHICLE	1989 1993 1941
SPACE PROGRAMS SUMMARY NO. 37-20 - VO MAR 1963 - GUIDANCE, PROPULSION, TELE JPL-SPS-37-20, VOL. IV N63-	ECONMUNICATION	NAVWEPS-7900 N63-13759 LUNAR LANDING PROPULSION SYSTEMS ER-12289 N63-14344	10-
PLUG NOZZLE PROPULSION EFFICIENCY	LSBBMA NOT, MS.	SELF-PROPELLED GETOL MODEL AIRCRAFT PROPULSI	ON
ORBITAL RENDEZVOUS - TRAJECTORY, GUIO PROPULSION RM-3275-PR N63-	ZHIGHE HI	UTIA-TN-64 SPACECRAFT POWER SUPPLY AND PROPULSION SYSTEINTEGRATION N63-15681	H
RH-3275-PR ELECTRIC PROPULSION - ELECTROTHERMAL,	TEXADON TO	BALLISTIC AND AERONAUTICAL SPACE TRAVEL -	12-
SYSTEMS N63-	17026 15-27	PROPULSION SYSTEMS, ROCKETS AND SPACE VEHICLE N63-15990	
HELICOPTERS - ROTOR AERODYNAMICS, PRO DRAG, STABILITY AND CONTROL, STRESSES VIBRATION, AND FLUTTER N63-		SPACE SCIENCE - ELECTRIC PROPULSION SYSTEMS SPACE VEHICLES N63-15992	13-
AERONAUTICS IN THE SPACE AGE - AERODY MATERIALS AND STRUCTURES - PROPULSION CONVERSION - NO3-	AND ENERGY	SPACE SCIENCE - ELECTRIC PROPULSION SYSTEMS - ELECTRIC ENGINE FOR SPACE VEHICLES N63-15993	1233
SPACECRAFT COLLOTDAL GENERATOR FOR EL	DISBARKO PAR	ROCKET PROPULSION SYSTEM - NONEQUILIBRIUM FL ROCKET NOZZLES TOR-930/2230-06/TR-1	
CHEMICAL PROPULSION FOR INTERPLANETAR DESIGN OF SPACECRAFT FOR BRAKING INTO AROUND PLANET MARS	ORBIT	REVIEW OF ADVANCED PROPULSION FOR MARS MISSI NUCLEAR AND ELECTRIC PROPULSION SYSTEMS N63-16834	
NASA-TM-X-50470 N63- PERFORMANCE ANALYSIS OF HIGH-ENERGY C STAGES FOR INTERPLANETARY MISSIONS -	HEMICAL	TRACKS, SLED STRUCTURES, PROPULSION TECHNIQUE AND INSTRUMENTATION ADAPTABLE TO WEAPONS SYSTEST PROGRAMS	
FROM EARTH ORBIT NASA-TH-X-50288 - N63-	ACTIVITY SEVE	NOTS-1938, REV. 1 - 46 14 16 N63-17128	
SOLAR ELECTRIC PROPELLED SPACECRAFT C ELECTROSTATIC AND ELECTROTHERMAL ENGI MASA-CR-51367 NO3-	NES	SATELLITE ORBITAL TRANSFER USING ARC-JET ENG ELECTROTHERMAL PROPULSION SYSTEMS N63-17185	-
MATERIAL RED ON FAMILIES OF BRAZED AN FITTINGS FOR ROCKET PROPULSION FLUID	ID WELDED	XV-SA AIRCRAFT - PROPULSION SYSTEM AND STRUC ENGINEERING N63-18138	
RTD-TOR-63-1027 N63- THERMIONIC CATHODES FOR ELECTROSTATIC	22637 23-27 ENGINES -	PROPULSION AND CONTROL BELT FOR ASTRONAUT MANEUVERING IN ZERO GRAVITY 07123-953002 M63-18246	17
EMISSION MECHANISMS, DISPENSATION MEC CATHODE OPTIMIZATION NASA-CR-51584 N63-	-22703 23-09	OXYGEN DIFLUORIDE-DIBORANE PROPELLANTS FOR U SPACE PROPULSION SYSTEMS - PERFORMANCE AND S STORABILITY ANALYSIS	SE
OPULSION CALCULATION SPACE FLIGHT HANDBOOK - ORBITAL MECHA	NICS AND	AIAA PAPER-63-238 ************************************	PAR
PROPULSION CALCULATIONS NASA-SP-33, PT. 2 N63-	AFFERBURES	FIRE CONTROL IN LIQUID HYDROGEN AND LIQUID O PROPULSION SYSTEMS ASD-TOR-62-526, PT. 11 N63-18899	18
OPULSION SYSTEM A HOT CYCLE PROPULSION SYSTEM		NUCLEAR PROPULSION SYSTEMS FOR MERCHANT SHIP	5

02-27 06-27 06-27 ULL 07-04 R 07-24 45 -ONS 07-26

11, 07-26 INCE IVE 08-01

08-27 10-27 N 10-27 12-27 S 13-30 OR 13-27

13-27 0 IN 13-02 1 -14-29 15-10 16 -5-27 17AL 6-33

7-14 IN CE 7-26

GEN

8-07

0-27

HIDCOURSE TRAJECTORY-CORRECTION PROPULSION SYSTEM FOR RANGER LUNAR LANDING VEHICLE	BALLISTIC PERFORMANCE OF PROTECTIVE BUOYANT AND MATERIALS N63-14956 11-19
HASA-CR-50727 HASA-19783 19-27 NUCLEAR ROCKET PROPULSION APPLIED TO MANNED MARS	ALUMINUM METEOROID BUMPERS - IMPACT TESTS NASA-TN-D-1784 N63-15772 13-18
SPACECRAFT N63-20120 20-27 DESIGN PROBLEM FOR LIQUID PROPELLANT ROCKET PROPULSION SYSTEMS N63-20325 20-27	PRINCIPLES OF METEOROID PROTECTION - SUMMARY OF MYPERVELOCITY IMPACT DATA AE62-0413 M63-16028 13-34
BELTA LAUNCH VEHICLES - PROPULSION SYSTEMS, GUIDANCE AND CONTROL SYSTEMS, SEPARATION SYSTEMS, RELIABILITY AND PERFORMANCE SM-43616 N63-20669 20-31	SOVIET LITERATURE REVIEW - PROTECTIVE STRUCTURES AND COMPONENTS - GROUND SUPPORT EQUIPMENT AID-P-63-79 N63-17716 A6-10
ESTABLISHING DESIGN CRITERIA FOR SPACE PROPULSION SYSTEM BY EXPOSING ROCKET MATERIALS AND STRUCTURES	SELF SEALING SPACECRAFT STRUCTURES IN METEOROIO SENVIRONMENT MASA-CR-50000 M63-18867 18-34
TO SIMULATED SPACE ENVIRONMENTS RTD-TOR-63-1050, VOL. 1 FUSION PROPULSION SYSTEM REQUIREMENTS FOR AN	OPTIMUM ENVIRONMENTAL PROTECTION AGAINST METEOROID PEMETRATION NASA-GR-50099 M63-20316 20-16
INTERSTELLAR PROBE MASA-CR-50964	ANALOG SIMULATION OF SATELLITE POWER SYSTEMS -
ERROR ANALYSIS OF PROPULSION SYSTEM FOR SATURN I - SA-1 BOOSTER NASA-TH-X-50286 N69-21625 22-27	MASA-CR-50940 MASA-21072 21-06 PROTECTIVE STRUCTURES AND COMPONENTS BIBLIOGRAPHY
TANTALUM ALLOY FOR HIGH PERFORMANCE PROPULSION SYSTEM COMPONENTS N63-22804 23-18	PATERIAL NO. SILICON-MITROGEN CONCELLANT DE-CO-OL
THERMODYNAMIC DATA FOR USE IN AMALYSIS OF PROPULSION SYSTEM - PROPELLANTS & COMBUSTION PRODUCTS 10-2289 N63-22849 23-26	SA SPACE SUIT CF SHOE CF SPACE SUIT EFFICIENCY OF OXYGEN MASKS DETERMINED BY MEASURING MITROGEN CONTENT WITHIN THE MASK
ON BOARD PROPULSION SYSTEMS DESIGN FOR MANNED SPACECRAFT N63-23212 24-27	CART-62-21 N63-13329 07-16 COLD WEATHER TESTING OF EXPERIMENTAL FLYING
TRANSPORT & STRUCTURAL PROPERTIES OF MATERIALS, PHYSICAL PROCESSES, CHEMICAL KINETICS, COMBUSTION ANALYSES, & PROPULSION SYSTEMS - SQUID PROJECT UVA-3-R VA-3-R	GLOVE - PROTECTIVE CLOTHING AAL-TN-63-1 INSTRUMENTED COPPER MANIKIN FOR DETERMINATION OF THERMAL INSULATION PROPERTIES OF PROTECTIVE
HIGH TEMPERATURE RESISTANT MATERIALS FOR MISSILE PROPULSION SYSTEM INSULATION	CLOTHING NAEC-ACEL-491 N63-19152 18-10 ELECTROSTATIC VOLTAGE AND CAPACITANCE ON ACTIVE
NOLTR 63-3 M63-23741 24-27 HYDROGEN-OXYGEN PROPULSION SYSTEMS TECHNOLOGY AIAA PAPER 63-475 M63-23749 24-27	MEN MEARING ARCTIC CLOTHING ASSEMBLIES AT TEMPERATURES FROM PLUS 5 TO MINUS 43-DEG C AL-TOR-63-12
EXHAUST NOZZLE MOISE SUPPRESSION PROGRAM FOR SUPERSONIC TRANSPORT PROPULSION SYSTEMS N63-23763 24-27	HEIGHT-WEIGHT SIZING SYSTEM AND FABRICATION OF MANIKINS FOR DESIGNING NEW PROTECTIVE CLOTHING
SUPERSONIC TRANSPORT PROPULSION SYSTEM AUXILIARY POWER EXTRACTION - GAS TURBINES N63-23765 24-27	AMRL-TDR-63-55 M63-19357 10-17 WORTEX TUBE FOR COOLING MEARERS OF INDUSTRIAL PROTECTIVE CLOTHING DP-861 M63-23117 24-16
PROPYLENE S HEXAFLUOROPROPYLENE S POLYPROPYLENE	PROTECTIVE COATING OXIDATION PROTECTION OF REFRACTORY METALS IN
PROSPECTOR PROJECT UNNANNED LUMAR EXPLORATION SPACECRAFT - RANGER, SURVEYOR, AND PROSPECTOR PROJECTS NASA-TH-X-50135 18-29	AEROSPACE APPLICATIONS N63-10385 01-13 SPRAYABLE, STRIPPABLE, PROTECTIVE COATING FOR AIRCRAFT, ROCKETS AND MISSILES N63-10474 01-19
PROTACTIMIUM 234 POLARITY AND RELATIVE INTENSITY OF GAMMA RAYS	IMPROVED COATINGS FOR TEMPERATURE CONTROL IN A SPACE ENVIRONMENT N63-10916 02-13
PROTACTINIUM-234 HETASTABLE N63-13943 09-23	HIGHLY REFLECTING COATINGS FOR THE SPACE N63-10917 02-13
HOLECULAR STRUCTURE OF PROTACTINIUM 234 — ELECTRON SPECTRUM AND RADIATION NS3-13944 09-23	EMITTANCE AND ABSORPTANCE IN COATINGS FOR SPACE APPLICATIONS N63-10918 02-13
ADTECTION SA THERMAL PROTECTION CONTRACTOR ME GEGS DESIREM	AN EVALUATION OF PROTECTIVE COATINGS ON NICOSIUM ALLOY SHEET MATERIAL N63-10964 02-18
CF INSULATION METEOROID PROTECTION FOR SPACE RADIATORS ARS PAPER-2543-62 M63-10265 01-06	PROTECTIVE COATINGS FOR REFRACTORY METALS, 1024 MOLYBDENUM ALLOYS N63-10966 02-18

STRUCTURE AND PROPERTIES OF PROTECTIVE COATINGS - HIGH TEMPERATURE OXIDATION W63-11206 09-19

ELECTROLESS MICKEL PLATING - CORROSION RESISTANCE AND THICKNESS DETERMINATIONS

RADAR INTERFERENCE AND PROTECTION AGAINST IT JPRS-16690 03-08

OVERLOAD PROTECTION IN SOLID STATE POWER SUPPLY N63-14170 09-06

RE

RAIN EROSION EFFECTS ON AIRCRAFT AND MISSILE

PRO SA CF

						1
1	A62-12 VIDE PORTURATION OF BOARD	N63-12367	06-17	STRUCTURAL MATERIALS AND PROTECTS SUBSONIC AND SUPERSONIC SPEEDS	VE COATINGS	AT
	TESTS OF BALL BEARINGS FOR OGO PERFORMANCE OF BURNISHED GOLD F		RACES	SB-62-6	N63-20032	2 171000
	AND RETAINERS TR-2311-6026-RU000	N63-12405	06-17	MATRIX AND COMPOSITE MATERIALS OF THORIUM OXIDE, AND MAGNESIUM OXID	E WITH TUNG	OXIDE, STER -
	POLYVINYL CHLORIDE COATINGS FOR HANDLING EQUIPMENT TO PREVENT D	HIGH EXPLOS	03A)	TS-OSTFT ESEMENT AND THE TOTAL THE MENT	N63-20259	20-19
	LAMS-2798		08-17		REFRACTORY N63-20725	METALS 21-17
	PAINTS AND SOLAR REFLECTORS AS SURFACES FOR SPACECRAFT JPL-TR-32-340	N63-13441	08-13	LOW TEMPERATURE DIELECTRIC PROTECT	413530	44000
	STUDY OF SILICON-NITROGEN POLYN	ERS FOR PROT	ECTIVE	DESIGN CRITERIA FOR SPACE PROPERTY	N63-21312	21-09
	COATING AND THERMAL SHIELDING A	N63-13646	08-07	OXIDATION-RESISTANT PROTECTIVE CO STABILIZED ELECTRIC ARC AT TEMPER 2325-DEG C	ATURES TO	ATER-
	STUDY OF SILICON-NITROGEN POLYN COATING AND THERMAL SHIELDING A		ECTIVE	ME-1-62	N63-21811	22-19
	er and Talenton Switch, htt Jana Tale 200 Ha	N63-13647	08-07	HIGH TEMPERATURE OXIDATION RESIST		IVE
	STUDY OF SILICON-NITROGEN POLYM		ECTIVE	+ 1 MOUTAE ROSE HOLLES WOLDSPINGERS PRODUCT	N63-22058	22-10
	CTURES AND COMPONENTS STOLEGERAPS	N63-13648	08-07	TECHNIQUES FOR APPLICATION OF PRO TO REFRACTORY METAL ALLOYS	TECTIVE COA	TINGS
	POLYMERS WITH SILICON-NITROGEN MATERIAL	BONDS FOR CO	ATING 08-07		N63-22096	22-10
	POLYMERS WITH SILICON-NITROGEN	HIMESLADS BYET	237075	ADHESIVES, PROTECTIVE COATINGS, P	OTTING COMP	DUMOS
	MATERIAL				N63-23042	24-09
	OPTICAL AND THERMAL METHODS OF			PROTEIN CF AMINO ACID	9250	
	TECHNIQUE TESTED FOR SPACECRAFT NASA-TN-D-1716		10-15	CF CHLOROPHYLL CF ENZYME		H43
	TECHNIQUE OF APPLYING PROTECTIVE	ST REMEMBER TE		CF HENOGLOBIN CF SERUM	15 17 1A 80 93A	
	NIOBIUM ALLOYS	N63-14743	11-17	EXPERIMENTAL INVESTIGATION OF BIO ACIDS, PROTEINDIDS AND PROTEINS	GENESIS OF	DHING
	PF-63-3	CO DETWENTED CO	1415		N63-11402	03-16
	MATERIALS PROPERTY DATA - HIGH ' FRICTION MATERIALS, CORROSION RI AND HIGH TEMPERATURE PROTECTIVE	ESISTANT MATE		FUNGI AS A NUTRIENT SOURCE - PROT	EIN H63-11485	03-11
	OXIDATION RESISTANCE OF URANIUM	Y, DESARRORIO	(J8:::	PROTEIN - EXTRACTION FROM VARIOUS FUNGAL SYNTHESIS - BIOECOLOGY OF		AND
	MICROSPHERES COATED WITH OXIDES BERYLLIUM OR MAGNESIUM	OF ALUMINUM,		ASSOCIATION PARTERIES ISCHMORDER NA	N63-11486	03-16
	SILICIDE PROTECTIVE COATINGS FOR			EFFECTS OF HYPOTHERMIA ON SHOCK S BLOOD PROTEIN LEVELS OF IRRADIATE JPRS-17262	D ANTHALS	05-16
	ASD-TDR-63-232	N63-16455	1314 Y L	REVERSIBLE HEMATURIA AND OLIGURIA	FOLLOWING I	RENAL
	TANTALUM ALLOYS, NIOBIUM, TUNGST ASD-TDR-63-160	TEN, AND HOLY	BDENUM	VENOUS PRESSURE ELEVATION CARI-63-1	N63-14333	10-16
	IRRADIATION EVALUATION OF EXPERI	MENTAL PYROL	YTIC-	ALTERATION OF PROTEIN METABOLISM : COLD EXPOSURE	MANAGEMENT	TYTOMES!
	FUEL PARTICLES	DATION PROTE	1X0	THREE SEED STRUCTURES, PROPERTY	N63-17095	四日本
	INTERHETALLIC PROTECTIVE COATING			EFFECT OF PROTEIN INTAKE AND COLD SELECTED LIVER ENZYMES ASSOCIATED METABOLISM IN RATS		
	NIOBIUM ALLOYS SUBJECTED TO REEN ENVIRONMENT - REFRACTORY METAL	TRY VEHICLE	85A2-31	AAL-TDR-62-61 1721014 2013142014	N63-17096	15-16
	NASA-CR-50540	N63-18416	181		DUNTS USING N63-17219	
	HIGH-TEMPERATURE OXIDATION PROTE VANADIUM ALLOYS ARF-86001-4			ELECTROPHORETIC EXAMINATION OF PA		
	STABLE PIGHENTS FOR LONG-RANGE S NASA-CR-50814	N63-19854	TINGS 19-17	INTRAVASCULAR AND EXTRAVASCULAR DI FLOURESCENT LABELLED PROTEIN SERVI HORMONE PREPARATIONS INJECTED INTO	HS. ENZYMES,	OF AND
	MULTIMETAL PROTECTIVE COATING PA COMPOSITE STEEL, MAGNESIUM AND A RIA-63-1651	OCESS FOR	CTURES	NUCLEIC ACID IN BIDSYNTHESIS OF P	N63-18968 ROTEINS	FLAT
	PROTECTIVE COATINGS FOR SHEET ME	TALS IN SUPE	RSONIC	PECTION FOR SPACE RAPIATORS ALLS	163-19819	3811
-	TRANSPORT AIRCRAFT NASA-CR-50824	N63-19967	19-17	PROTEIN SYNTHESIS, RIBONUCLEIC AC	463-22296	
e Gig	OXYGEN DIFFUSION THROUGH THORIUM PROTECTED GRAPHITE ASD-TDR-63-635		946	PROTEINS AND NUTRITION - METABOLIC PROTEINS & AHINO ACIDS	PATHWAYS F	
J	ASD-TDR-63-635	H03-20001	19-18	AMRL-TOR-63-77 ATE SILOTO MI MELTIN	403-55401	53-10

RIBONUCLEIC ACID IN METABOLIC POOL, RNA OF

19-17 13-17 1XIDE: TEN -

ETALS 21-17 FOR

21-09 YER-22-19 VE 22-18 INGS 22-18 IMOS 14-09

ND -16

-16

RADIOACTIVITY - BIOPHYSICS N63-23543 24-16	TRANSPORT CALCULATIONS FOR PROTON SHIELDING 11-28
MITEINOID EFFECTS OF STAINING ON MICROSPHERES PRODUCED FROM	POLARIZATION OF RECOIL PROTONS IN PION-PROTON ELASTIC SCATTERING UCRL-10629 N63-16501 14-25
THERMAL POLYAMINO ACIOS N63-11326 03-16 EXPERIMENTAL INVESTIGATION OF BIOGENESIS OF AMINO	RANGE-ENERGY RELATIONSHIPS FOR PROTONS AND
ACIDS, PROTEINOIDS AND PROTEINS N63-11402 03-16	ELECTRONS PENETRATING ALUMINUM, SILICON AND SILICON DIOXIDE N63-17142 13-20
PROTEINOIDS PREPARED BY THERMAL COPOLYMERIZATION OF AMINO ACIDS — CONDITIONS FOR AMINO ACID RECOVERY FOLLOWING HYDROLYSIS NASA-CR-50418 N63-18388 17-07	EXPERIMENTAL LIMITS FOR ELECTRON-PROTON CHARGE DIFFERENCE AND CHARGE OF NEUTRON
NOTON POLEL-EARL	SENICONDUCTOR DETECTOR PULSE HEIGHT RESPONSE TO
SA SOLAR PROTON CF CHARGED PARTICLE CF ELEMENTARY PARTICLE	PROTON RADIATION - ENERGY ABSORPTION SAM-TOR-63-21 N63-17435 15-15
EXPERIMENTAL LIMITS FOR THE ELECTRON-PROTON CHARGE DIFFERENCE AND FOR THE CHARGE OF THE NEUTRON N63-10484 01-23	PROTON AND ALPHA PARTICLE RADIATION DAMAGE IN EXPLOSIVES - RANGE AND ENERGY RELATIONSHIP PA-TR-3070 N63-17628 16-23
HIGH ENERGY NUCLEAR REACTIONS OF NIOBIUM WITH INCIDENT PROTONS AND HELIUM IONS UCRL-10461 N63-10870 02-23	PROTON-NEUTRON DAMAGE CORRELATION IN SEMICONDUCTORS - SILICON SOLAR CELLS & RADIATION EFFECT
NUCLEAR STAR DENSITY PRODUCED BY 24-GEV PROTON	NASA-CR-90422 N63-18856 18-09
BEAM IN HEAVY CONCRETE ORNL-3367 N63-11983 05-23	FIXED FIELD AND FREQUENCY, HIGH ENERGY PARTICLE ACCELERATOR WITH STRONG FOCUSING POWER, CAPABLE OF PROTON ACCELERATION TO 1-GEV
PROTON PRECESSION MAGNETOMETER - IONOSPHERIC ELECTROMAGNETISM N63-12068 05-15	ORNL-3431 N63-19217 18-23
IRRADIATION EFFECTS OF 40 AND 440-MEV PROTONS ON	TOTAL REACTION CROSS SECTIONS FOR PROTONS, DEUTERONS, AND ALPHA PARTICLES UCRI-10763 N63-19817 19-23
TRANSISTORS NASA-TN-D-1490 N63-12194 05-23	ELASTIC POSITIVE K-MESON PROTON SCATTERING
NUCLEAR REACTIONS INDUCED BY PIONS AND PROTONS - EXCITATION FUNCTION EVICENCE FOR ELEMENTARY	POLARIZATION OF RECOIL PROTONS UCRL-10613 VGRE-10613 VGRE-10613
PARTICLE COLLISIONS IN NUCLEAR MATTER UCRL-10531 N63-12422 06-23 HIGH ENERGY BREMSSTRAHLUNG FROM PROTON-NUCLEUS	PHASE SHIFT ANALYSIS OF PROTON-PROTON SCATTERING OF DIFFERENTIAL CROSS SECTION 6 SPIN-ORBIT FORCE
COLLISIONS UCRL-7001 N63-12423 06-23	HYDROGEN BUBBLE CHAMBER STUDY OF INTERACTION OF
PHOTOPROTONS ENITTED FROM LIGHT NUCLEI AND NUCLEAR	PROTONS OF POSITIVE PIONS IN 300 MEV KIMETIC ENERGY RANGE CERN-63-27 N63-21177 21-23
SHELL STRUCTURE NUP-62-2 N63-12743 06-23	BIOLOGICAL EFFECTIVENESS OF HIGH ENERGY PROTONS -
NUCLEON-MESON CASCADE CALCULATIONS AND SHIELDING OF 800-MEY PROTON BEAM	SPACE BIOLOGY N63-21530 22-16
OKNT-3409 01-53	OF MUTATIONS - SPACE BIOLOGY M63-21532 22-16
SPACE VEHICLE SHIELDING - MODEL SOLAR FLARE ATTENUATION AND MONDENERGETIC PROTON BEAMS BY ALUMINUM SHIELDS N63-13319 07-23	KINEMATICS OF ELEMENTARY PARTICLES AS FUNCTION OF MOMENTUM - DYNAMIC QUANTITIES FROM ELEMENTARY
PROTON AND NEUTRON ANGULAR DISTRIBUTIONS OF THE	PARTICLE-PROTON INTERACTION UCRL-2426, VOL. III N63-22354 23-23
CARBON-13/NITROGEN-14 AND CARBON-13/CARBON-14 REACTIONS BETWEEN 3.2 AND 4.1 MEV NYO-10252 N63-13321 07-23	PROTON AND ELECTRON SCATTERING BY DIATORIC DAYGEN MOLECULES
FERNI-CONTACT CONTRIBUTION TO THE PROTON-	AFCRL-63-697 N63-22800 23-23
DEUTERON COUPLING CONSTANT IN THE HYDROGEN- DEUTERIUM MOLECULE N63-14519 10-23	PROTON-COMPTON SCATTERING N63-22994 23-23
PION-PROTON ELASTIC SCATTERING - PHASE SHIFT	LINEAR ACCELERATOR FOR ELECTRONS AND PROTONS LNF-63/46 N63-23195 24-23
NYO-10257 N63-14809 11-23	RELATIVE BIOLOGICAL EFFECT OF 660-MEV PROTONS M63-23274 24-16
PROGRAM REQUIREMENTS AND DESIGN OF 300 TO 1000-BEV ACCELERATOR - SHIELDING, KIMETICS, PROTON BEAM BNL-772/T-290/ N63-14947 11-15	POLARIZATION EFFECTS IN LEPTON-PROTON ELASTIC SCATTERING CALCULATED USING ISOBARIC MODEL
PROGRAM REQUIREMENTS FOR 300 TO 1000-BEV ACCELERATOR - BIBLIOGRAPHY - PROTON BEAM N63-14948 11-15	PROTON BELT CF GEOMAGNETICALLY TRAPPED PARTICLE MAGNETIC FIELD OF MODEL PROTON BELT
DESIGN STUDY FOR 300 TO 1000-BEV ACCELERATOR - SHIELDING, PROTON BEAM KINETICS, PARTICLE	MAGNETIC PIECE OF MODEL PROTON SEE M63-11783 04-12
DETECTION AND IDENTIFICATION N63-14949 11-15	GEOMAGNETICALLY TRAPPED PROTONS WITH ENERGIES ABOVE 350 NEV N63-13045 07-26
ON ALUMINUM SPACECRAFT SHIELDING N63-15148 11-32	LOW ENERGY GEOMAGNETICALLY TRAPPED PROTONS - THE
metallikenter met angen speter a super and smenter	NASA-TH-D-1679 N63-13102 07-28

PHYSICAL PROCESSES IN STARS - STELLAR STRUCTURE, SOLAR PHYSICS, PROTON-PROTON REACTION, AND ENERGY TRANSFER N63-16232 13-05

PR

MAGNETIC FIELD OF LOW ENERGY PROTON BELT REVEALED BY EXPLORER XII MEASUREMENTS AND CALCULATIONS FROM SIMULATED CONDITION	BIOLOGICAL EFFECT OF HIGH ENERGY PROTON RADIATION, RADIATION HAZARD N63-15133 11-14
NASA-TN-D-1674 N63-13821 09-12	SPECTRUM ANALYSIS OF HIGH ENERGY PROTON RADIATION, LINEAR ENERGY TRANSFER /LET/ AND RELATIVE
EAST-WEST ASYMMETRY IN THE FLUX OF MIRRORING GEOMAGNETICALLY TRAPPED PROTONS	BIOLOGICAL EFFECTIVENESS /RBE/ N63-15136 11-21
UCRL-10587 N63-14081 09-12	RADIATION DOSE IN TISSUE FROM HIGH-ENERGY PROTONS
PROTON FLUXES ALONG TRAJECTORIES THROUGH INNER VAN ALLEN BELT N63-15151 11-20	N63-15144 11-16
VAN ALLEN BELT PROTON FLUX MEASUREMENTS FROM	SPACE PROTON DOSES AT POINTS IN HUMAN BODY - SPACECRAFT SHIELDING N63-15145 11-16
SATELLITES LMSC-2-08-62-2 N63-16335 13-28	DESIGN OF SPACECRAFT SHIELDING OF MINIMUM WEIGHT.
LOW ENERGY PROTONS AND ELECTRONS IN	PROTONS AND SECONDARY NEUTRONS N63-15154 11-N
GEOMAGNETICALLY TRAPPED RADIATION N63-17112 15-12	CASCADE FROM HIGH-ENERGY PROTONS IN DENSE MATTER -
ATMOSPHERIC RADIATION - AURORAL SPECTROSCOPY AND	RADIATION HAZARD - N63-15158 11-2
PARTICLE PRODUCTION - ELECTRONS AND PROTONS N63-18474 17-12	SOLAR FLARE PROTON IRRADIATION OF DISCOVERER 17 NASA-CR-50033 N63-16678 14-21
PROTONS IN OUTER RADIATION BELT BY SCOUT ROCKET	ENERGY DISSIPATION IN TISSUE FOR PROTON RADIATION
SCINTILLATION SPECTROMETER AFSWC-TOR-62-105 N63-18796 18-28	IN SPACE - COMPARATIVE ANALYSIS OF LET SPECTRA OF FLARE PRODUCED AND FISSION NEUTRON RECOIL PROTONS NASA-CR-50044 N63-16679 14-24
PROTON ENERGY	MODEL AS STAR SENSITY PRODUCES AS TRACES PARTON
RESONANCE CAPTURE OF ELECTRONS FROM ATOMIC HYDROGEN BY HIGH ENERGY PROTONS - PROBABILITY OF IMPACT CHARGE TRANSFER INCLUDING MOMENTUM EFFECTS N63-11642 04-23	COSMIC RADIATION INTENSITY IN IRON METEORITES - SPALLATION PRODUCT BY PROTON IRRADIATION OF IRON NASA-CR-50194 N63-16884 14-25
PRELIMINARY EXPLORER XII DATA ON PROTONS BELOW 20 KEY - THEORY OF SOLAR PROTON ENERGY TRANSITION AT	EFFECT OF GAMMA OR FAST NEUTRON RADIATION DOSES ON ANIMAL LIFESPAN — CHEMICAL COMPOUND PROTECTION IN PROTON IRRADIATED MICE N63-17044 15-16
INTERPLANETARY SPACE-GEOMAGNETIC FIELD INTERFACE N63-12053 05-32	GAMMA AND FAST NEUTRON RADIATION EFFECTS - PATHOLOGY IN MICE GIVEN CHEMICAL COMPOUNDS FOR
PRIMARY COSMIC RAY AND SOLAR PROTON FLUX OBSERVED BY HIGH ALTITUDE BALLOON FLIGHTS — RELATIONSHIP TO SOLAR ACTIVITY CYCLES N63-12347 05-28	RADIATION PROTECTION PRIOR TO PROTON IRRADIATION N63-17045 15-14
	HAZARD OF PROTON-INDUCED IONOSPHERIC RADIATION TO
METHOD FOR DISTINGUISHING HIGH ENERGY PROTONS AND MESONS HAVING SAME IMPULSE, BASED ON NIP JUNCTION CHARACTERISTICS IN SILICON DIDDES	SPACE FLIGHT SAFETY N63-18775 17-28 ENERGY DOSAGE IN LUCITE PHANTOMS FROM SECONDARY
N63-12672 06-09	EMISSION OF PROTON IRRADIATED TARGETS ORNL-3457 N63-19520 19-09
PROTON BOMBARDMENT ON TRANSISTOR CIRCUITS AT 40 AND 440-MEV IN RADIATION BELT	PROTON IRRADIATION EFFECT ON SILICON PROPERTIES
N63-15126 11-25	AND DAMAGE DETECTION BY X-RAY DIFFRACTION AFCRL-63-312 N63-19975 19-25
RADIATION DOSE IN TISSUE FROM HIGH-ENERGY PROTONS No.3-15144 11-16	SHIELD GEOMETRY INFLUENCE ON AIR DOSE AND TISSUE
CASCADE FROM HIGH-ENERGY PROTONS IN DENSE MATTER - RADIATION HAZARD N63-15158 11-28	DOSE FROM PROTONS IN SPACE VEHICLE NASA-CR-50780 19-28
	APPARATUS FOR PROTON IRRADIATION OF SELECTED AREAS
COSMIC AND SOLAR RADIATION - PROTON ENERGY SPECTRUM	OF LIVING BIOLOGICAL CELLS AND MONITORING SYSTEM SAM-TDR-63-26 N63-21185 21-16
NASA-CR-50045 N63-16670 14-28	MECHANISM OF SHIELDING AGAINST WHOLE BODY PROTON
INCLASTIC NUCLEAR INTERACTIONS BETWEEN HIGH ENERGY PROTONS AND SILICON PHOTOVOLTAIC CELLS	IRRADIATION - SPACE BIOLOGY N63-21533 22-16
MR-21 N63-19871 19-06	PROTON RADIATION DAMAGE TO SILICON SEMICONDUCTORS NASA-CR-51532 N63-22890 23-25
SOLAR FLARE PROTON ENERGY SPECTRUM NUCLEAR EMULSION, POWER LAW FOR KINETIC ENERGY	CHARGED PARTICLE RADIATION DAMAGE IN
NASA-RP-14 N63-21354 22-28	SEMICONDUCTORS - ENERGY DEPENDENCE OF PROTON DAMAGE IN SILICON
PROTON IRRADIATION	NASA-CR-51742 N63-23007 24-25
PROTON DAMAGE, ATMOSPHERIC CONTAMINATION, CHEMISTRY, ELECTRICITY, MECHANICS, METALLURGY AND CERAMICS, RADIO, SOLID STATE PHYSICS, AND SOUND N63-12416 06-01	PROTON-PROTON REACTION NUCLEAR AND GENERAL PHYSICS & MASS SPECTROSCOPY - NEUTRON CROSS SECTION, PROTON SCATTERING, AND
PROTON DAMAGE TO SILICON SOLAR CELLS	MESON-NUCLEON INTERACTION ANL-6666 N63-13652 08-23
N63-12417 06-06	MEASUREMENT OF NUCLEAR SECONDARY PARTICLES FROM
RADIATION EFFECT ON SEMICONDUCTOR DEVICES DUE TO PROTON PARTICLE ENERGY N63-13533 08-23	INTERACTION OF PROTONS N63-15141 11-32
PROTON RADIATION DAMAGE IN SEMICONDUCTING TRANSISTOR DEVICES - RADIATION HAZARD	RADIATION DOSE FROM PRIMARY COSMIC RAYS COMPARED TO DOSE FROM GAMMA RAYS PRODUCED BY PROTON-PROTON REACTIONS IN SOLAR FLARE - SPACECRAFT SHIELD
N63-15127 11-25	N63-15150 11-28
	NATE TO THE RESERVE TO SERVE THE RESERVE TO SERVE THE PROPERTY OF THE PERSON OF THE P

SOLAR CELL DEGRADATION BY PROTON BOMBARDMENT - RADIATION HAZARD N63-15128 11-06

ATION, 11-16

ATTON.

11-29 OTONS 11-15

11-14

GHT .

TER . 11-21

TION

A OF

14-24

14-25

ES ON

15-16

EON

RY

S

19-04

9-25

UE

9-28

REAS

1-16

2-16

ORS

9-23

1-32

-28

O

15-14 17-28

SVITSHERE

SYSTEM EVALUATION SESTIMATION NEUTRAL-PION PRODUCTION FROM PROTON-PROTON N63-19379 18-08 COLLISIONS AT 735 MEY 726 W N63-19401 ... 19-23 HCRL-10621 BEHAVIORAL SCIENCE BIBLIOGRAPHY - PSYCHOLOGY AND PSYCHOPHYSIOLOGY N63-19436 19-14 CF HICROGREANISM PROBABILITY PROGNOSTICATION IN THE ACTIVITY OF THE BRAIN - PSYCHOLOGY JPRS-20550 N63-19752 19-16 MASTE TREATMENT PROTOZOA - MORPHOLOGY AND TAXONOMY OF FLAGELLATA N63-11933 04-16 TUBERANCE
PRESSURE AND TURBULENT HEAT TRANSFER ASSOCIATED
WITH SINUSOIDAL PROTUBERANCES ON FLAT PLATE
NASA-TN-D-1626

M63-13950

09-13 N63-19802 19-14 HUMAN ABILITIES ON PSYCHOLOGICAL TASKS AS STUDIED USING INFORMATION THEORY AND SHANNON LAM JPRS-20680 10-14 S PLUTONIUM RECYCLE TEST REACTOR /PRTR/ PSEUDORANDOM SIGNAL
CODING THEORY APPLICATIONS TO COMMUNICATIONS
SYSTEMS — CODE CORRELATIONS, PSEUDORANDOM CODED
RANGING SYSTEM, CODED PHASE-COHERENT COMMUNICATION
N63-15061 11-08 LIFE SUPPORT SYSTEMS - SPACE MEDICINE AND 610LOGY, PHYSIOLOGY AND PSYCHOLOGY N63-20793 21-16 TIME SCORE FOR PUSH BUTTON OPERATION - MULTIMODAL DISTRIBUTION BY STATISTICAL ANALYSIS - PSYCHOLOGICAL ENGINEERING STUDY PSYCHOLOGY /GEN/
EFFECTS OF TASK ORGANIZATION, TRAINING TIME, AND
RETENTION INTERVAL ON THE RETENTION OF SKILL
AMRL-TDR-62-107 N63-10293 01-14 AMRL-TDR-63-29 N63-22392 23-14 INDIVIOUAL & GROUP STRESSES ARISING FROM ENFORCED N63-23217 24-14 CONFINEMENT MANHIGH PROJECT, LIFE SUPPORT SYSTEMS, CREM PERFORMANCE, PHYSIOLOGY, PSYCHOLOGY PSYCHOHOTOR
CF MERVOUS SYSTEM
MEASURING HUMAN PERFORMANCE UNDER TRANSIENT HEAT
STRESS - METHODS FOR PSYCHOMOTOR TESTING
AMRL-TOR-63-1 12-14 N63-11155 03-04 CONFINEMENT STUDY OF A MINIMUM SIZE SPACE CABIN SIMULATOR FOR THE LUNAR MISSION ARS PAPER-2644-62 M63-11261 03-N63-11261 03-16 ACCELERATION EFFECTS ON PILOT PERFORMANCE -PSYCHOMOTOR RESPONSE NADC-MA-6219 N63-17063 15-14 PHYSICAL, PSYCHOLOGICAL, AND APTITUDE REQUIREMENTS FOR ASTRONAUT SELECTION ARS PAPER-2647-62 N63-11262 03-14 PSYCHOLOGICAL EFFECT
ACCEPTABILITY OF DEHYDRATED FOOD DURING
CONFINEMENT - PHYSIOLOGICAL, PSYCHOLOGICAL AND
PSYCHOHOTOR EFFECTS
AMRL-TOR-63-9 N63-18141 16 MAN-MACHINE SYSTEM EFFICIENCY - PSYCHOLOGY - NERVOUS SYSTEM - AUTOMATION JPRS-16404 N63-11593 04 14 has no many . N63-18141 - 16-16 EFFICIENCY OF AN OPERATORS WORK IN AUTOMATIC
WAN-MACHINE SYSTEM N63-11594 04-14 PSYCHOLOGICAL AND PHYSIOLOGICAL ETIOLOGY OF MOTION SICKNESS N63-19828 19-16 PSYCHOLOGICAL MANIFESTATIONS OF HUMAN NERVOUS HUMAN PERFORMANCE ON RUNNING MATCHING MEMORY /RMM/ TASKS IN A CENTRIFUGE - PSYCHOLOGICAL EFFECT OF ACCELERATION SYSTEM UNDER WORK CONDITIONS SOVIET PSYCHOLOGICAL REPORTS - SAFETY, CYBERNETICS AND COMPUTER ANALYSIS OF ELECTROENCEPHALOGRAMS NADC-HA-6309 | 0412 69474 - 3114 N63-20694 1 21-14 N63-11934 04-14 JPRS-17219 LIFE SCIENCE RESEARCH - SPACE BIOLOGY, AND
PSYCHOLOGICAL AND PHYSIOLOGICAL EFFECTS OF SPACE
FLIGHT N69-23235 24-01 PAIRED-ASSOCIATES TRAINER - PSYCHOLOGY, LEARNING, TRAINING EQUIPMENT AMRL-TDR-62-104 N63-13420 D8-1 N63-13420 08-14 PSYCHOLOGICAL EFFECTS OF SAN TWO-MAN SPACE CABIN SINULATOR SAN-TDR-63-27 AEROSPACE MEDICINE AND BIOLOGY - BIBLIOGRAPHY ON PHYSIOLOGY, PSYCHOLOGY, PHARMACOLOGY, TOXICOLOGY, SAFETY, AND LIFE SUPPORT SYSTEMS N63-15258 12-16 PSYCHOPHYSICS AND SIGNAL DETECTION THEORY ESD-TDR-62-305 N63-21698 22-14 PSYCHOMETRICS - SIMULTANEOUS ACTIVATION OF BINANUAL CONTROLS AMRL-TDR-63-6 MODELS GREEN N63-15447 TACTUAL DISPLAY FOR VEHICLE CONTROL - PSYCHO-PHYSICS OF TACTUAL PERCEPTION, TACTILE STIMULATORS, DISPLAY & TRACKING EXPERIMENTS NASA-CR-51518 N63-22029 22-06 Data Cal 17 DM 10 N63-15447 12-14 BIBLIOGRAPHY - BEHAVIORAL SCIENCES, ENGINEERING & TRAINING PSYCHOLOGY, ENVIRONMENTAL STRESS, SIMULATION TECHNIQUES, AND PHYSICAL ANTHROPOLOGY N63-15966 13-14 PSYCHOPHYSIOLOGY
PSYCHOPHYSIOLOGICAL EFFECTS OF PROLONGED MANNED
SPACE FLIGHT - MEIGHTLESSNESS, COSMIC RAYS
ARL-TDR-62-28

ARL-TDR-62-28

ONE OF THE PROLONGED MANNED
ARL-TDR-62-28

ONE OF THE PROLONGED MANNED
ARL-TDR-62-28 TESTS FOR EXTRASENSORY PERCEPTION USING VERITAC TESTING AND RECORDING MACHINE WITH STATISTICAL ANALYSIS OF RESULTS - PSYCHOLOGICAL TESTING AFCRL-63-141 - M63-18632 17 DESIGN AND DEVELOPMENT OF REAL-TIME PSYCO-PHYSIOLOGICAL AND ENVIRONMENTAL MONITORING SYSTEM - CAPABILITY OF OPERATOR TO PERFORM MISSION N63-18352 17-16 PSYCHOLOGICAL AND PHYSIOLOGICAL PROBLEMS OF MANNED PSYCHOLOGY AND HUMAN ENGINEERING OF CONDITIONED RESPONSE PATTERNS TO CONTROL PANEL AMRL-TDR-63-34 N63-19064 18 ASTRONAUT SELECTION CRITERIA - PSYCHO-PHYSICAL PACTORS : N63-18937 18-16 PULSE, PULSE TECHNIQUE
SA MICROPULSATION
SA PRESSURE PULSE
PULSE RECEIVERS IN RADAR BEACONS
EID-119
N63-10482 01-15

HUMAN PSYCHOLOGICAL FACTORS IN IMAGE
PREPRETATION - PHOTOGRAPHIC IMAGES - VISUAL
PRECEPTION PROBLEM
N63-19256 18-14

PSYCHOACOUSTIC SPEECH TESTS - VOICE COMMUNICATION

PL

-			All Artello Million River Committee	
MARROW-BAND TELEMETRY OF NONRECUI NRL-5846	N63-10667	02-08	N63-22284 SUPERCONDUCTING COIL ENERGY STORAGE FOR HIGH	1.273 Tells
PULSATION OF VENTILATED CAVITIES	N63-11883		PULSED POWER APPLICATIONS N63-22285	23-64
PULSATION METHOD FOR GENERATING	CAVITATION I	DANAGE	EXPLOSIVE MAGNETOHYDRODYNAMIC GENERATORS FOR ULTRAHIGH POWER PULSES N63-22292	
CERCULAR DE DISTANCE DE LA CONTRACTOR DE	N63-11977	COR.	PULSED DISCHARGE IN NITROGEN AND HYDROGEN HI	100,68
RELATIVE TO PRESERVATION OF DARK			IONIZED PLASMAS ARL-63-105 N63-22495	23-23
NIGHT FLYING LB-30977	N63-12038		EFFECT OF DISTURBANCES ON MEASUREMENT OF DOP FREQUENCY OF SINGLE RADAR ECHO PULSE	PPLER
EFFECTS OF LOAD PULSE ON SHOCK AN CHARACTERISTICS OF VERNICULITE CO			TIL/T-5376 N63-23073	24-01
POLYURETHANE PLASTIC DASA-1299	N63-12182	05-33	THEORY AND APPLICATION OF NONSYMMETRICAL PUL COUNTERS	
OPTINUM LOOP-GAIN-FREQUENCY FUNCT		OND	FTD-TT-62-1495/162 N63-23633	24-15
OR THIRD ORDER LINEAR SERVOSYSTER EDC-1-62-10	N63-12608	06-09	THRESHOLD FEEDBACKS USED TO SUPPRESS PULSE INTERFERENCES IN HIGH FREQUENCY PORTION OF RECEIVING INSTALLATION	141.9
COMPUTATION OF KINETIC CONSTANTS SHOCK TUBE DATA - SQUID PROJECT	FROM SINGLE	-PULSE	RECEIVING INSTALLATION FTD-TT-63-447/162 N63-23643	24-09
PSU-9-P	N63-12767	06-11	FREE STREAM CONTROL FOR LOW SPEED WIND TUNNE PULSATING FIELD, STATIC PRESSURES AND VELOCI	
PULSED ULTRASONIC THERMOANEHOMETE ELIMINATE ERRORS DUE TO ELEMENT H			DISTRIBUTIONS FTD-TT-62-1476/182 N63-23728	3150
EFFECTS FTD-TT-62-118/16264	N63-12817		PULSE MAGNETIC DECODER TO INCREASE EFFICIENCE	OF THE PERSON NAMED IN
GEOMETRY OF HIDDEN DEFECTS DETERM			LOWER LEVEL OF INTERFERENCE FTD-TT-63-459/182 N63-23737	24-09
ULTRASONIC PULSE ANALYSIS AND SPE WAL-TR-830.5/5	N63-13135	07-23	PULSE CODE MODULATION /PCM/ ERROR ANALYSIS IN MULTIPLE FREQUENCY SYSTEMS	AND
DIFFRACTION OF PULSE BY A HALF-PL MRC-364	LANE N63-13332	08-20	SIGNAL-TO-NOISE RATIO OF FREQUENCY-MODULATION PULSE CODE MODULATION-FREQUENCY-SHIFT SYSTEM	ON AND
USE OF SPRING-HASS TO APPROXIMATE SUBJECTED TO RECTANGULAR-FORCE PL		YSTEM	NBS-TN-167 N63-14967 MOLECULARIZED PULSE-CODE MODULATION TELEMETR	11-08 RY
BALLISTICS RES. REPT76		09-33	TRANSMITTING SET N63-15425	
DISSOCIATIVE MECHANISM PROPOSED F OBSERVED IN PULSED OPTICAL GASEOL			TECHNIQUES FOR TRANSMISSION OF PULSE-CODE MODULATION SIGNALS N63-15426	12-08
DIFFRACTION OF PULSES BY A HALF-F			NIMBUS SATELLITE - PULSE-CODE-MODULATED TELE SUBSYTEM N63-18616	EMETRY 17-30
FUNCTION ANALYSIS MRC-293	N63-14475	10-20	PULSE DURATION MODULATION /POM/ PULSE DURATION MODULATION - LIQUID AMPLIFICA	TION.
NATURE OF LONG SPARK - POWER SUPP CURRENT DISTRIBUTION, FREQUENCY, FTD-TT-61-149/162	AND LIGHTNI		GUIDED MISSILES N63-13385 PULSE FREQUENCY MODULATION /PFM/	08-11
EQUIPMENT AND METHODS OF INVESTIG		SE-	DYNAMIC STRESS CONCENTRATION FACTOR AS FUNCT PULSE FREQUENCY	4-11 2-78
VOLTAGE GENERATOR AND PULSE DISCH	HARGES N63-14906	11-09	WAL-TR-811.6/1 M63-15612 SEMICONDUCTOR DIODES IN PULSE FREQUENCY MODU	3. 200.0
PULSE TYPE LONG-SPARK CORONA - FI SPARK	N63-14907	0F 11−09	AERE-N-983	20-09
MICROMAVE GAS BREAKDOWN WITH EMPH NANOSECOND PULSE BREAKDOWN - PLAS EFFECT ON ELECTROHACHETIC PROPACA	HASIS ON SMA CONDUCTI	IVITY	PULSE HEATING PULSE HEATING OF ZIRCONIUM-URANIUM HYDRIDES NAA-SR-7398 N63-12155	05-19
RADC-TDR-62-616	N63-15095	11-24	PULSE HEATING OF MODIFIED ZIRCONIUM-URANIUM HYDRIDES TO DESTRUCTION	STATE OF
NANOSECOND PULSE IN ATR - LENGTH, BREAKDOWN	SERVED NO. A	RAM 1 10	NAA-SR-7736 ! H63-13034	07-26
RADC-TDR-63-82	N63-15714	12-25	PULSE HEIGHT CALCULATIONS FOR A PARALLEL PLA	ITE
HYDRODYNAMIC EFFECTS PRODUCED BY DISCHARGES	- 79071 171707		ELECTRODE IONIZATION CHAMBER CONTAINING AN ATTACHING GAS ORNL-3090 N63-10587	02-23
AVCO-EVERETT RES. REPT138 HEAT TRANSFER BETWEEN A FLAT PLAT	A01-12514	14-11	ORNL-3090 N63-10587 COMPUTER REDUCTION OF GAMMA RAY PULSE HEIGHT	
HEAT TRANSFER BETWEEN A FLAT PLAT IMPINGING JET AROO-2327-2	ELAST DO LID TY	4164	OBTAINED WITH A SPECTROMETER USNRDL-TR-592	
PROPAGATION OF PULSES IN COMPRESS	IBLE FLUID		LEAST SQUARE ANALYSIS OF GAMMA RAY PULSE HEI	IGHT
SPHERES AFCRL-63-862	N63-21038	21-11	SPECTRA JPL-TR-32-373 N63-13446	08-23
TRANSMISSION OF CONTINUOUS ANALOG AMPLITUDE TIME MULTIPLEXED DATA I FORMATS ON MAGNETIC TAPE - DATA R	NTO DIGITAL	2% (ASS) 1.	QUANTITATIVE ANALYSIS OF MULTICOMPONENT PULS HEIGHT SPECTRUM FROM DECAY OF RADIOMUCLIDES HW-75806 N63-14863	
AFCRL-63-814 INDUCTIVE ENERGY STORAGE FOR HIGH	11911		CIRCUITS ADDING PULSE-HEIGHT AND DIGITAL DAT MULTICHANNEL ANALYZER MEMORY	TA ON

3-06 3-06 3-26 LY

3-23 ER 4-08

4-15

4-09

4-10 AND 4-09

ND AND L-08

2-08

2-08 TRY 7-30

ON, B-11 N OF 2-19 Fron D-09

5-19

7-26

2-23 ATA

3-20 T 3-23

1-20 ON

HM-71044 NO31637 DINAGRO GMA MOTTAN63-15674 12	DESIGN OF PUMP IMPELLERS USING DIGITAL COMPUTER
SEMICONDUCTOR DETECTOR PULSE HEIGHT RESPONSE TO PROTON RADIATION - ENERGY ABSORPTION SAM-TOR-63-21 N63-17435 15	NASA-TN-D-1562 N63-11880 04-17 DIAPHRAGN PUMP FOR LIQUID METALS N63-11812 04-17
MUSE HODULATION CF FREQUENCY MODULATION	MOJTEN PLUTONIUM PUMP EXPERIMENT IN REACTOR CORES
TRANSISTORIZED MINIATURE 15-CHANNEL PULSE-TIME	THE RECODE TRANSPORTED BY AND THE PROPERTY OF
FOUR LAYER DIODE AS PULSE MODULATOR SMITCH RADC-TDR-62-497 N63-13232 07	FLUID AMPLIFIER ARTIFICIAL HEART PUMP N63-13388 08-11
OPTIMIZATION TECHNIQUE FOR PULSE WIDTH MODULATE SYSTEMS	HEATER. FLOW TRIMMER, RADIATOR-CONDENSER
R-163 N63-17090 15	-20 N63-15020 11-13
PULSE MODULATION DEVICE USED AS AMPLIFIER, MULTIPLIER AND DIVIDER UCRL-10754 N63-18814 18	ORGANIC COOLED REACTOR - HEAT EXCHANGER DESIGN
WAVE AND PULSE HODULATION FOR TRANSMITTING DATA OVER CHANNELS PERTURBED BY GAUSSIAN NOISE	MAGNETOHYDRODYNAMIC FLOW IN ELECTROMAGNETIC PUMPING OF LIQUID METALS M63-15259 12-27
THE PROPERTY OF STREET, WINDS AND ASSESSMENT OF STREET, WILLIAM STREET, WINDS AND ASSESSMENT OF STREET, WILLIAM STREET, WILLIA	PLUTONIUM RECYCLE TEST REACTOR PUMP OPERATING
INSTANTANEOUS VALUE COMPANDING IN PULSE MODULAT COMMUNICATION SYSTEMS FTD-TT-62-32/162 N63-23377 24	HM-76646 N63-15675 12-17
FTD-TT-62-32/162 N63-23377 24	RAREFIED GAS FLOW THROUGH CASCADE OF FLAT PLATES -
EFFECT OF PULSED RADIATION IN PRODUCING DEATH I	N N63-16494 14-11
USNRDL-TR-627 33 144-217 N63-14887 11	SYSTEM OF MUCLEAR REACTORS USING HELICAL ROTORS AS
ELECTRONIC MATERIALS, COMPONENTS AND SYSTEMS	INDUCERS NAA-SR-7455 N63-17245 15-17
BREAKDOWN UNDER HIGH POWER PULSING MICROWAVE	TURBINE PUNP MISSILE PROPELLANT - TRANSONIC SPEED NACA-RH-ESTJZ9 N63-17466 15-06
RADIATION - DISCHARGE GROWTH IN AIR AND SULFUR HEXAFLUDRIDE RADC-TOR-63-201 N63-18151 16	DIFFUSION PUMP DILS IN CRYD-BAFFLED SYSTEMS23 BACKSTREAMING AMALYSIS AEDC-TOR-63-174 N63-19424 19-11
NOISE SIGNAL AND CARRIER MODULATION IN ELECTRIC CABLES DURING NUCLEAR PULSE IRRADIATION USAELROL-TR-2334 N63-19331 18	MICROBALANCE TECHNIQUE FOR VAPORIZATION RATE
RESPONSE OF P-N-P-N TRANSISTOR SWITCH TO PULSED NUCLEAR RADIATION - RADIATION EFFECT N63-20233 20	
RADIATION EFFECTS IN COAXIAL CABLES DUE TO GAMP NEUTRON RADIATION IMPULSES N63-20234 20	ANNOTATED BIBLIOGRAPHY OF PUMPS FOR USE IN
ELECTRON PRODUCTION AND TRANSPORT IN ELECTRONIC MATERIALS IN A PULSED NUCLEAR ENVIRONMENT - RADIATION EFFECT N63-20235 20	AXIAL- AND MIXED-FLOW TURBOMACHINES AND PUMPS - ANNOTATED BIBLIOGRAPHY
CREATION OF ION PAIRS IN MATERIALS IN PULSED RADIATION ENVIRONMENTS N63-20236 20	BIB-9 M63-20054 20-11 -09 AXIAL AND MIXED FLOW TURBINES, COMPRESSORS, PUMPS,
EFFECT OF PULSED NUCLEAR RADIATION ON QUARTZ	FANS AND BLOWERS - BIBLIOGRAPHY BIB-1G N63-20055 20-17
	-25 SELF-PRIMING CENTRIFUGAL PUMPS AND PRIMING METHODS
EFFECT OF PULSED GAMMA RADIATION ON INFRARED DETECTORS	BIB-11 N63-20056 20-17
GA-2984 MATTISANO NON N63-21217 21	-23 BIBLIOGRAPHY ON SIDE-CHANNEL PUMPS N63-20057 20-17
PULSED NUCLEAR RADIATION EFFECTS ON ELECTRONIC APPARATUS	PUMP TESTING FOR USE IN NITRIC ACID-ALUNINUM DAIDE
USAELROL-TH-2306 N63-22670 23	-23 SLURRY SERVICE N63-20722 21-17
THIN CALORIMETER AS DOSIMETER FOR INTENSE PULSE RADIATION GA-4497 N63-23136 24	PYROTECHNIC CHEMICAL PUMPING OF LASERS - FUELS &
SAFETY OF IN-CORE EXPOSURE OF ROVER/NERVA FUEL	TO PA-TR-3102 DIDGIS HI MOTTA DISTINUS ON MOTTA NIME 23-25
PULSED IRRADIATION IN TRIGA MARK F REACTOR POWER TRANSIENT USNROL-TR-669 N63-23181 24	TANK-MOUNTED BOOSTER PUMPS FOR PROVIDING NET POSITIVE SUCTION MEAD FOR TURBO-PUMPS OPERATING IN RADIATION ENVIRONMENT N63-22319 23-27
PULSED NUCLEAR RADIATION EFFECT ON PROPERTIES TO SILICON & GERMANIUM TRANSISTORS	NAME OF TAXABLE PARTY O
PURP STATES OF S	THRUST AND PUMPING CHARACTERISTICS OF EJECTOR-TYPE EXHAUST NOZZLES AT SUBSONIC AND SUPERSONIC SPEEDS

· · · · · · · · · · · · · · · · · · ·	
PUMPING CHARACTERISTICS OF VARIABLE GEOMETRY EJECTORS WITH HOT AND COLO PRIMARY NOZZLE FLOW NACA-RN-E54G15 N63-12526 06-11	METAL PURIFICATION AND ORGANIC SEMICONDUCTORS AFCRL-63-97 14-0
MODEL C STELLARATOR, SMALL DEVICE RESEARCH, THEORETICAL PLASMA PHYSICS MATT-0-20 N63-14040 09-24	BERYLLIUM RESEARCH - PURIFICATION BY VACUUM DISTILLATION, JOINING BY ULTRASONIC WELDING, FLOW AND FRACTURE CHARACTERISTICS ASD-TOR-62-509, VOL. II N63-16999 15-1
THE PROPERTY AND THE PROPERTY OF THE PROPERTY	PURIFICATION AND STOICHIOMETRY OF ELECTRONIC
HYPOTHERNIA INDUCED BY PUMPING DXYGEN REGULATED BLOOD THROUGH HEAT EXCHANGER AAL-TDR-62-30 16-16	SEMICONDUCTOR MATERIALS AFCRL-63-160 N63-19525 19-0
NEODYMIUM GLASS LASER - PUMPING EFFICIENCY, SPECTRAL EMITTANCE AROD-3209-2 N63-18148 16-25	PURIFICATION OF STARTING MATERIAL FOR POTASSIUM CHLORIDE SINGLE CRYSTALS, PROBLEMS OF RECONTAMINATION & VERIFICATION OF PURITY
AMPLIFICATION IN PUMPED MONLINEAR CAPACITORS FTO-TT-63-476/16264 N63-23642 24-09	N63-22543 23-1
PUNCH AND ADDRESS OF TAXABLE PARTY AND TAXABLE P	CF IMPURITY ANALYSIS OF HIGH PURITY VANADIUM BY OPTICAL
LIQUID PROPELLANT SENSITIVITY, SHOCK TUBE AND FLASH-IRRADIATION TESTS ON NITROGLYCERINE ARF-3197-15 N63-10956 02-26	EMISSION SPECTROSCOPY BM-RI-6182 N63-13038 07-9
DEVICE FOR RECORDING FUEL ELEMENT DIMENSIONS DIRECTLY ON PUNCHED PAPER TAPE IN DECIMAL DIGITAL	CRYSTALLOGRAPHY - HIGH PURITY SINGLE-CRYSTAL BORD PREPARATION BY CHEMICAL VAPOR PLATING AND X-RAY DIFFRACTION INSPECTION
FORM N63-12456 06-15	ASD-TOR-62-427 N63-13755 08-0
CONSTRUCTION AND DESIGN OF EQUIPMENT FOR EXPLOSIVE HOLE PUNCHING OF METALLIC PLATES - DYNAMIC DEFORMATION N63-19617 19-17	PYRANIDAL BODY COMPARISON OF FLOW OVER FLAT DELTA WING AND RECTANGULAR PYRAMID USING SLENDER BODY THEORY ARC-CP-637 N63-13850 09-0
PUNCHED CARD SYSTEMATIZING TEXTITE DATA USING MANUAL CARD SORT, METEORITIC APPLICATION	RADIATION PATTERN OF THIN-WALLED PYRAMIDAL HORN ANALYZED BY GEOMETRICAL THEORY OF DIFFRACTION RADC-TDR-63-273 N63-20795 21-0
NASA-TT-F-114 N63-11612 04-20	PYRANOMETER
CIRCUIT WIRING FOR NUMBER STORAGE IN 18M 047 TAPE- TO-CARD CONVERTER - MEMORY STORAGE UNIT EUR-263-D N63-15701 12-09	CF RADIATION MEASUREMENT PYRIDINE
STAR CATALOGS ON PUNCHED CARDS AND MAGNETIC TAPE NASA-TM-X-50148 N63-18421 17-20	PYRIDINE NUCLEOTIDE OXIDASES AND TRANSHYDROGENASE IN ACCLIMATIZATION TO HIGH ALTITUDE SAM-TOR-62-08 N63-14791 11-1
PUNCH CARD SYSTEM FOR INTERPRETING GRAVIMETRIC OBSERVATIONS - GRAVITATIONAL EFFECTS - DATA ANALYSIS N63-18757 17-12	SPECTROPHOTOMETRIC DETERMINATION OF IRON BY COMPLEXING MITH PYRIDINE 6 PHENANTHROLINE COMPOUNDS
PUNCTURE	RSIC-41 NATIONAL AND
HYPERVELOCITY PUNCTURING OF ELASTOMER SELF-SEALING STRUCTURE FOR SPACE VEHICLE NSL-63-33 N63-15390 12-34	PYROCERAM ACHINING OF REFRACTORY MATERIAL - TUNGSTEN, MOLYBDENUM, MIOBIUM, PYROCERAM AND ALLOYS
PURIFICATION	ASD-TR-7-532A/VI/ N63-14883 11-1
SA AIR PURIFICATION CF CLEAMING CF FILTERING CF REFINING	PYROHYDROLYSIS SPECTROPHOTOMETRIC DETERMINATION OF MICRO- QUANTITIES OF CHLORIDE IN PLUTONIUM METAL AFTER PYROHYDROLYSIS
CF STERILIZATION PURE CHROMIUM - MECHANICAL PROPERTIES & PRODUCTION N63-12380 06-18	LA-2921 PYROLYSIS
HELTUM-PURIFICATION FOR HIGH PURITY INFRT-	CF CECOMPOSITION
ATHOSPHERE BOXES ANL-6652 N63-12740 06-17	RATE AND MECHANISM OF PYROLYSIS OF POLYBENZYL NOLTR-62-59 N63-10893 02-0
ANL 350 HELIUM-ATMOSPHERE SYSTEM - MOISTURE AND OXYGEN REMOVAL, PURIFICATION, RADIOACTIVE MATERIAL	PYROLYTIC REFRACTORY MATERIALS FOR SOLID-FUEL ROCKET ENGINE - VAPOR DEPOSITION
PROCESSING ANL-6489 N63-13774 08-10	WAL-TR-766.41/2-3 N63-11441 03-2
MITRYL CHLORIDE - CHEMICAL REACTIONS, PREPARATION,	PYROLYSIS OF PLASTICS IN HIGH VACUUM ARC IMAGE FURNACE
PURIFICATION, EXPLOSIVE PROPERTIES & USE IN PROPELLANTS & BINDERS - BIBLIOGRAPHY	R62SD57 N63-11794 04-1
S8-62-63 N63-14073 09-07 SYNTHESIS OF NEW OXIDIZERS FOR SOLID PROPELLANTS -	INFLUENCE OF GAMMA RADIATION AND ALKALI TREATMENT ON PYROLYSIS OF POLYTRIFLUENCETHYLENE No.3-12707 06-0
PREPARATION AND PURIFICATION IN LIQUID OXYGEN	THE PARTY OF THE PROPERTY OF THE PARTY OF THE PARTY OF THE PARTY.
HRB-2022Q2 N63-14221 09-26	FLASH PYROLYSIS OF PHENOL-FORMALDEHYDE BY TIME-OF FLIGHT MASS SPECTROSCOPY
DESIGN AND CONSTRUCTION OF GAS CHROMATOGRAPH FOR	R62SD81 N63-12799 06-0
BORON COMPOUND PURIFICATION AFCRL-62-731 N63-14601 10-07	VOLATILIZATION AND DECOMPOSITION OF FLUOROPOLYMER DETERMINED BY PYROLYSIS N63-12806 06-0
SYNTHESIS, PURIFICATION, AND CHARACTERIZATION OF BENZIMIDAZOLE DERIVATIVES AFCRL-03-044 N63-16738 14-07	ABSORPTION SPECTRA OF BENZENE AND PERFLUOROBENZEN AT HIGH TEMPERATURES - KINETICS OF BENZENE PYROLYSIS
AND THE PARTY OF T	AND TOWNS AND

14-07

FLOW 15-18 19-07 EUN 23-19

07-07 BORON 08-07

09-02 RN 21-09

MASE 11-16

3-19

1-18

2-23

-07

-27

-19 NT -07 OF--07 ERS -07

NE

CU-7470	N63-15203 11-0	CARBON YARN N63-20820 21-19
DEVELOPMENT OF NEW TYPE OF PYRI PYROLYSIS AERE-R-3949	NA3-14248 13-0	
VAPOR DEPOSITION OF REFRACTORY	METAL OXIDES ON	BN1-1643
GRAPHITE BY PYROLYSIS OF ALKOX	IDES	PYROLYTIC REFRACTORY LIQUID PROPELLANT THRUST CHAMBER DEVELOPMENT NASA-CR-51521 N63-22159 22-27
LINEAR PYROLYSIS EXPERIMENTS — EQUATIONS FOR PYROLYSIS RATE DI SOLID PROPELLANT COMBUSTION	ETERMINATIONS -	PYROMARK PAINT CSU2 21TARGAUD
ORGANIC COOLANTS FOR NUCLEAR RI AND POLYPHENYL COOLANTS, RADIO EXPERIMENTS	EACTORS - SANTOWAX LYTIC AND PYROLYTIC	N63-14299 7/10-19
100-16869 5 8 8	N63-18810 :18-2	
ELECTRON SPIN RESONANCE MEASUR PYROLYSIS - CARBONIZATION OF O	EMENTS DURING	PYROMETER DEVELOPMENT FOR LUMAR TEMPERATURE MEASUREMENT
GRAPHITE WADD-TR-61-72, VOL. 16	N63-20116 20-0	
THERMOGRAVIMETRIC METHOD OF DE OF POLYMERS - KINETIC TECHNIQUI CYCLING	E AND THERMAL	THERMODYNAMICS OF REFRACTORY METAL CAMBIDES, BORIDES AND MITRIDES FOR USE IN MOZZLES - REDUCTION OF PYROMETER DATA SCATTER M63-13549 108-15
NOLTR-63-113	N63-22491 23-1	INFRARED MONOCHROMATIC RADIATION /IMRA/ METHOD
PYROLYTIC GRAPHITE PYROLYTIC GRAPHITE WHISKERS	N63-11293 03-1	
PYROLYTIC GRAPHITE DEFORMATION	AND STRUCTURAL	Y (04 8 9 1 04 4 9 20 7 4 1 9 9 7 4 20 1 9 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 2 2 2
TRANSFORMATION JPL-TR-32-360	TO UP STURBLESHIP - NAZ	INSTRUMENTATION FOR OBSERVATIONS OF PLANETS IN
HE WERRY WAY METOROUGH HE CLERKE	REAL DATE AT LANGUAGE	RADIATION PYROMETERS N63-16245 13-05
PYROFIBER, FREE-STANDING, PYRO PYROCARBIDE S-515	150次还是《安安本品牌集》至	PYROMETRY 大声自己社会为人员,逐渐在自动之一当的事情解之,因此主动以为自然一类的美力生态。
107,100	CHANGE SALE CELL CO	APPARATUS N63-20182 20-15
MAGNETIC SUSCEPTIBILITY OF PYRI JPL-TR-32-165	0LYTIC CARBONS N63-14666 10-2	TEMPERATURE MEASUREMENT IN GASEOUS DETONATIONS BY
REFRACTORY METAL ALLOYS OF PYRI SOLID PROPELLANT ROCKET ENGINE		CAL ARL+63-05 2 MM 2 POST LAGTY DUGGE N N63-22237 1 123-11
WAL-TR-766.41/3 (()) 39 - 3181.A	N63-15352 12-2	RECOVERED BY CHEMICAL ENGINEERING METHODS ROAD
PYROLYTIC GRAPHITE COATINGS FOR EFFECT OF DEPOSITION VARIABLES MICROSTRUCTURE - SCALE MOTOR TO	ON GRAPHITE EST FIRING RESULTS	PYROTECHNIC FLASH POPPY PYROTECHNIC FLASH CARTRIDGE - SIZE, LIGHT INTENSITY & DURATION, AND ASSEMBLY
SOLID ROCKET NOZZLE APPLICATION	N63-15975 13-2	6 PROPERTY OF THE SAME OF THE SAME WAS SAME OF THE SAM
DEVELOPMENT OF NEW TYPE OF PYR		CF FIREWORKS YTIIAUD
AERE-R-3949 CONSACT BALLINGTON	N63-16248 13-0	7 PYROTECHNIC OUTDOOR WARNING SYSTEM - DESIGN PHASE
PYROLYTIC GRAPHITE AND RELATED	DIATOMINE WILLECOLD	USING PROPELLANT ACTUATED DEVICES N63-16765 14-10
SB-62-27-0 MOTTA MOTO AND	N63-17636 16-1	9 THERMOVACUUM TEST RESULTS - PYROTECHNIC COMPONENT
NONDESTRUCTIVE TESTING OF PYRO	SLATER-CONDIN PAR	PERFORMANCE IN K-10 PROGRAM N63-19269 18-09
MRI-228-05 COMPRESSIBILITY OF PYROLYTIC G	HORSE THE HEST WEST	7 COMPONENT AND PROCESS SPECIFICATION FOR PYROTECHNIC DELAY MIXTURE BASED ON TUNGSTEN SC-4792/RA/ N63-21655 22-18
EXPLOSIVE GENERATED SHOCK WAVE	\$ 88-30	4/154-62-150
NOLTR-63-73	N63-19932 19-1	POWDERS - A-DADEN DE ROMANE DE DOMMATER MADE: ZAJTA
YROLYTIC MATERIAL CF ABLATING MATERIAL	CLISSICAL PLASMAN	SC-4790/RR/ 34 39-26
PYROFIBER, FREE-STANDING, PYRO	GRAPHITE AND	PYROTECHNIC CHEMICAL PUNPING OF LASERS - FUELS & OXIDIZERS TESTED IN VARIOUS COMPOSITIONS
MS-515 STMEND HE TREET 49903 HO	N63-13844 09-1	
IRRADIATION EVALUATION OF EXPE CARBON-COATED URANIUM CARBIDE FUEL PARTICLES	AND URANIUM DIOXIDE	PYROXEMEN FOR INTERPRETATION AND MILLISECTORS— OF SHIGATE GLEMSHAM ADDITAMENTAR - YTLIGATISE THEOREGIZETS - MONTHON YTTINIQUE-LEBERSH BRANCH
BMI-1628 ANGS; SON LO STATEMENT S	ABILITED PER LINE	SA TETRAPYRADLE IN AND MEMBER OF DELAYS ON
POSTIRRADIATION FISSION GAS RE FROM PYROLYTIC CARBON COMMITTED TO THE PROPERTY OF THE PROPERTY	DENT DECEMBER A RECEIVED	METHODS OF PORPHINE SYNTHESIS DURING CHEMICAL EVOLUTION OF EARTH 3 NASA-CR-50200 N63-17215 15-07
THERMAL, MECHANICAL AND PHYSIC PYROLITICALLY DERIVED REFRACTO	AL PROPERTIES OF RY MATERIALS	RABAR GUALITY CONTROL - CONTINUOUS WORLTORFHOR DOCK TO ARREAD RECEASE RECORD TO
MASA-CR-50404 MADE & 12 TRAR - 1	No N63-18865 A / 18-1 STANTIMORNAL AZESO 64-2274	CF SYCC CERCHICO PERSONS OF LUCETE AND GUARTE TO SAMPA AND CESCHICH FACT SCUTTERS RADIATION

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QUANTITATIVE ANALYSIS

QUADRATIC EQUATION	ELECTRON TUBES AND MATERIALS	RESPONDENT OF	10.35
PARAMETER-DEPENDENT PROGRAMMING - COMPUTER MET FOR QUADRATIC OBJECTIVE FUNCTION, LINEAR SECON	IDARY	N63-11014	03-
CONDITIONS, AND POLYNOMIAL OF PARAMETERS	NUCLEAR ACTIVATION ANALYSIS - TO 3-11 DEVELOPMENT - APPLICABILITY		06-
QUADRATIC FACTORS OF POLYNOMIALS NASA-CR-52238 N63-23816 2	CHEMICAL ANALYSIS OF BILIRUBIN E		08-
QUADRATIC SURD		ANALYSTS OF	
QUADRATIC SURDS - COMPUTER COMPUTATION	RADIDACTIVE MATERIALS EUR-118.F	N63-13762	08-
MRC-363 N63-14593 1	0-20 QUANTITATIVE ANALYSIS OF MULTICO	MPONENT PULSE	9
QUADRUPOLE BENDING-MAGNET AND QUADRUPOLE ABERRATIONS FOR PARAXIAL RAYS	HEIGHT SPECTRUM FROM DECAY OF RA		19.72
ANL-6611 N63-11199 0	3-23 QUANTITATIVE ANALYSIS OF SILICON		IN
QUADRUPOLE MASS SPECTROMETER FOR STUDY OF DIELECTRIC MATERIALS AND ELECTRON-IONIZATION C	STAINLESS STEELS BY X-RAY SPECTA EUR-203.F	N63-15403	MESS
SECTIONS MIT-TR-176 N63-13460 0	QUANTITATIVE DETERMINATION OF OX MONOCARBIDE BY VACUUM HOT EXTRAC EUR-204.I	TION	12-
DIRECTIONAL CORRELATION ATTENUATION COEFFICIEN	T (1.610)0.8-4.51	NA 3-11 PHY 129	
FOR MAGNETIC DIPOLE & ELECTRIC QUADRUPOLE INTE ACTIONS - PART 1, INTERMEDIATE NUCLEAR STATE S TID-17089/PT. 1/ N63-14237 1	PIN SOLUTIONS - USE OF CARRIER-PRECI 0-23 FILTER ELECTRODE	PITATION AND	20,00
DIRECTIONAL CORRELATION ATTENUATION COEFFICIEN	T. SH-RI-6249	N63-17714	16-
FOR MAGNETIC DIPOLE & ELECTRIC QUADRAPOLE INTE ACTIONS - PART 2, INTERMEDIATE NUCLEAR STATE S TID-17089/PT. 11/ M63-14285 1	R- QUANTITATIVE MEASUREMENT OF HUMA PIN SAM-TDR-63-45		21-
OPTICAL PROPERTIES OF QUADRUPOLE MULTIPLETS FO	QUANTITATIVE ANALYSIS OF HYDROGE	N AND CARBON	IN
SECTOR FOCUSING IN THE TWO-NILE ACCELERATOR SLAC-14 N63-14557 1	T1LTK-5378	N63-21674	22-
QUADRUPOLE FOCUSING FOR ACCELERATORS SLAC-15 N63-17567 1	QUANTIZER PICTURE REGENERATION FROM QUANTI		
	QUANTUM ELECTRODYNAMICS 1-23 CF FIELD THEORY QUANTUM ELECTRODYNAMICS WITHOUT		
QUADRUPOLE ABSORPTION LINE SPECTRUM OF MOLECUL HYDROGEN	AR FIELD 4-23 NYO-10255	N63-13323	
COLLISION NARROWING OF SPECTRAL LINES - HYDROG QUADRUPOLE SPECTRUM : N63-23278 2		LAUT SUATED NO	CAT
SPECTRAL LINE PROFILES - BREADTH & SHAPE OF QUADRUPOLE LINES OF HYDROGEN N63-23279 2	WIS-TCI-5, SER. 3	N63-11001	03-
QUALITY CONTRACTOR CON	RELAXATION OF QUANTUM MECHANICAL	SYSTEMS N63-11191	03-
S HANDLING QUALITY QUALITY CONTROL	RELATIONS AMONG POTENTIAL ENERGY DIATOMIC MOLECULES - QUANTUM MEG	HANICS	44
CF INSPECTION CF RELIABILITY ENGINEERING	WHEN THE WALFE WELLT TOWN	N63-11432	03-
RELIABILITY AND QUALITY CONTROL IN PRODUCTION N63-17269 1			05-
TITANIUM TANKAGE DEVELOPMENT - ENGINEERING - MANUFACTURING - QUALITY CONTROL	MODEL FOR STATISTICAL ATOM WITH	2 0 18 (5 to E)	HK.
N63-18991 /- 1	8-17 ANGULAR MOMENTUM	N63-12147	05-
RELIABILITY & QUALITY CONTROL REQUIREMENTS FOR ATLAS IGBH-STANDARD LAUNCH VEHICLE-3 GDA-63-0436 No3-21031 2:	ABSORPTION OF ELECTROMAGNETIC WA	EL-FV-MAR	SW
	MATT-159	N63-12791	06-
QUALITY PROGRAM EVALUATION PROCEDURES FOR PROBI IDENTIFICATION AND RELIABILITY AND SAFETY NEED MANNED SPACE FLIGHT SYSTEMS	OF INVESTIGATION BY KINETIC DESCRIP MAGNETIC ABSORPTION COEFFICIENT		
DIVENUE THE PROPERTY OF THE PR	2-20 IN MAGNETIC FIELD MATT-163	N63-12792	06-
RELIABILITY - MATHEMATICAL ANALYSIS, TESTING, HUMAN FACTORS, & QUALITY CONTROL - BIBLIOGRAPH' SCR-99B N63-22090 2:	Y THEORETICAL INVESTIGATION OF CLO 2-06 NEGATIVE HYDROGEN ION	Br1828	MES
FLIGHT TRAINING QUALITY CONTROL SYSTEM AND ITS	ARL-62-458		08-
APPLICATION TO HELICOPTER TRAINING N63-22674 2	PERTURBATION THEORY RULES FOR CO B-14 ENERGY OPERATOR IN QUANTUM STATI UCRL-10562	STICAL MECHAN N63-13565	IICS OB-
RADAR QUALITY CONTROL - CONTINUOUS MONITORING PAIRCRAFT N63-23146 24	TOAL AND PRESERVE PROPERTIES OF YE	ARIZATION AND	167 C
	DESCRIPTION		

FRON 3-01 16-07 08-07

10-8

1-20

2-14 . 2-07 LIC 6-07 1-16 N 2-16

3-23

C 7-23 ATEO 3-20 3-23

3-23

5-23

5-23

6-24 D-1-24

3-20

S 1-23

MCNL-63-27 a DATA THE LAST SHEET HE		10-23	ELECTROMAGNETIC FIELD AND QUANTUM MECHANICAL STATE MEASUREMENTS WITH FOURIER TRANSFORM
MITED-ATOM EXPANSIONS FOR HELIUM A ATOMS - VALIDITY FOR GROUND STATE & SHEAT RANGE INTERACTIONS NO		STATE	1001ZATION BY RELATIVISTIC PARTICLES IN HELIUM-
MANTUM EFFICIENCY RADIATION DETECT	ORS AND CO	OUNTER	HYDROGEN GAS MIXTURES MITH QUANTUM MECHANICAL EFFECTS NASA AND AND AND AND AND AND AND AND AND AN
INFLUENCE OF FERMION STATISTICS ON	DENSITY	12-20	QUANTUM MECHANICS - SCATTERING THEORY N63-23283 24-23
MATRICES - MANY-PARTICLE PROBLEM OF MECHANICS TH-80 M6		12-23	QUANTUM MECHANICS RECAPITULATION N63-23204 24-23
PRODUCTION OF THE PROPERTY OF			OTHER WILLIAM COLLAY THANKS TO WILLIAM THE BOD
ERROR AMALYSIS FOR ELECTRON DENSITY AND ATOMIC FORM FACTORS IN QUANTUM CALCULATIONS NO	MECHANICAL	TIMESO	QUANTUM RECHANICS - SCATTERING THEORY APPLIED TO POTENTIAL SCATTERING N63-23285 24-23
WANTUM-MECHANICAL THEORY OF THERMA	L ACCOMMOD	MITA	MODIFICATION OF QUANTUM MECHANICAL LIQUVILLE EQUATION N63-23429 24-23
	3-15853	13-11	QUANTUM NUMBER HEAVY MESONS AND EXCITED BARYONS - MASS SPECTRA.
MISSIBILITY OF GIVING FINITE MASS THELD - EVIDENCE THAT FINITE MASS A	PPEARS AS		QUANTUM NUMBERS, LIFE TIMES AND DECAY MODES SLAC-13 M63-15810 13-23
SELF ENERGY EFFECT - QUANTUM MECHAN	3-16692	14-15	RECURSION RELATIONS AND INVARIANT ARRAY OF QUANTUM NUMBERS IN LINEAR COMBINATIONS FOR 6-J SYMBOLS
MANUFARDLISM, QUANTUM YIELD OF LIQUID		TORS.	ORML-3440 HAT STRANG POT STIFFER H63-16170 13-23
SHIELDING, FILM DOSIMETERS, RADON H			TRANSITION PROBABILITY FROM MOLECULAR SPECTRUM - VIBRATIONAL QUANTUM NUMBERS - VACUUM ULTRAVIOLET
MOIDPHYSICS - MEASUREMENT OF PHOTO		er .	TRANSITIONS and an AMERICAN AND AND AND AND AND AND AND AND AND A
QUANTUM YIELD OF LIQUID SCINTILLATO	RS 3-17307	15-23	CF FIELD THEORY
WANTUM MECHANICS - CALCULATION OF	ISONER RAT	TIOS.	NATURE AND INTERDEPENDENCE OF AXIONS OF RELATIVISTIC QUANTUM FIELD THEORY
PARTICLE EMISSION AND SPIN DISTRIBU	TION IN TI	16-29	NYO-10258 N63-14215 09-23
CALCULATION OF PARTICLE /RESONANCE/ LIFETIME - QUANTUM MECHANICS NO	HASS AND	17-23	ALMOST PERIODICITY AND QUANTAL H THEOREM N63-14750 11-23
And the Late of the server & the say of	VARIATION T	23232	CALCULATION OF SOME ATOMIC INTEGRALS CONTAINING
QUANTUM MECHANIC TUNNELING THROUGH BARRIERS - SOLID STATE STUDY - MICH STUDY			MAYE FUNCTIONS DEPENDENT UPON INTERELECTRONIC DISTANCES - THREE ELECTRON ATOM - QUANTUM THEORY TN-91 No3-10555 14-23
QUANTUM MECHANICAL COLLECTIVE MODEL AGTATION, VIBRATION, AND HYDRODYNAM			MEISSNER EFFECT OF SUPERCONDUCTOR AND SELF-ENERGY OF PHOTON - ELECTRIC ANALOGY IN QUANTUM THEORY
OSCILLATION - MODEL UNIFICATION	3-18990	10-24	NUP-63-4 N63-16691 14-24
CALCULATING GROUND STATE PROPERTIES	OF HANY	P1400 30	QUANTUM VIRIAL THEOREM - EQUATION OF STATE OF
PARTICLE SYSTEMS USING REDUCED DENS	ITY MATRIC	ces -	MASA-CR-50132 N63-17212 15-23
	3-19154	16-23	PRINCIPLES OF CONTINUUM MECHANICS IN LIGHT OF GENERAL THEORY OF TRANSFORMATION
EFFECT OF EQUATIONS CHARACTERISTIC TRANSFORMATIONS ON QUANTUM MECHANIC			21-80 A/AFI-PAN
	3-19230	18-23	LINEAR ASPECTS OF WIGHTMAN FORMULATION OF QUANTUM FIELD THEORY IN TERMS OF VACUUM EXPECTATION VALUES
HATURBATION THEORY APPLIED TO MOLE	CULAR QUA	NTUR	OF FIELD OPERATORS N63-19647 19-23
MECHANICS - CALCULATION OF INTERMOL MOTENTIAL ENERGY SURFACES IN UPPER	ECULAR FOI	RCES &	CROSS-SECTIONS OF YANG-MILLS QUANTA & APPLICATION OF GENERALIZATION OF ELECTROMAGNETIC FIELD TO
MASA-CR-50787 3114353545 30 8311 N6			ELEMENTARY PARTICLE PHYSICS & QUANTUM FIELD THEORY AFOSR-62-120 N63-20704 21-23
ISOTHERMS DETERMINATIONS OF MYDROGE LOW TEMPERATURE TO EXAMINE WHETHER	COMPRESSI		MICROMAVE AND QUANTUM ELECTRONIC CIRCUITS AND
OF THESE GASES IS INFLUENCED BY QUARTIC-33	3-19816	19-11	THEORY N63-22275 23-09
MEGIPROCITY IN QUANTUM MECHANICS		20-23	QUANTUM FIELD THEORY - AMALYTIC REPRESENTATION OF INVARIANT DISTRIBUTIONS N63-22704 23-20
WANTUM CHEMISTRY AND SOLID STATE P	HYS1CS	20-23	QUARRY VIBRATIONS FROM INSTANTANEOUS AND MILLISECOND— DELAYED QUARRY BLASTS
APPLIED MECHANICS. SOLID STATE & QU	A RADAS-SI	NET'S THE	OM-RE-6151 H97242 K914MOJ 40 2127 N63-12349 AH 05-12
SPACE PHYSICS, COMMUNICATION THEORY PHYSICS	& ELECTRO	DN	EFFECT OF DELAY TIME AND NUMBER OF DELAYS ON SPECTRA OF RIPPLE-FIRED BLASTS IN QUARRY BLASTING
STL-9990-6363-RU-000 N6			AFCRL-63-296 N63-17633 16-12
MAILTONIAN MODEL OF LORENTZ INVARI INTERACTIONS - QUANTUM MECHANICS NO-10275		21-23	CF ASMASIVE
WANTUN MECHANICAL CALCULATION CONS	BASTERNE,	Atzat	CF ROCK CERENKOV RESPONSE OF LUCITE AND QUARTZ TO GAMMA
	3-22743	23-23	AND CERENKOV FAST NEUTRON RADIATION

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INDUCTANCE AND CAPACITANCE DETERM			APPLICATION AND ANALYSIS OF LOGNORMAL DISTRIBUTION - QUEUEING PROBLEMS AND PEAK FAILURE RATE
CIRCULAR CUT QUARTZ PLATES FOR US IN FILTER CIRCUITS AND OSCILLATOR	UNITS		RM-3781PR N63-20750 21-21
	N63-13202		S INTERNATIONAL QUIET SUN YEAR /IQSY/
ELECTRON SPIN-LATTICE RELAXATION IN SYNTHETIC QUARTZ AFCRL-62-910	AT DEFECT S N63-13287		QUINONE CATALYTIC DECOMPOSITION OF FORMALDEHYDE AND
FILM THICKNESS CONTROL BY QUARTZ AID-T-63-86	CRYSTAL RES N63-17902	ONATOR 16-15	HYDROGEN PERDXIDE — CATALYTIC HYDROGENATION OF QUIMONE ON PLATINIZED PLATINUM ELECTRODES AFCRL-63-632
QUARTZ HELICAL DELAY TRANSMISSION PROPAGATION OF HIGH FREQUENCY ULT RADC-TDR-62-553			ATTERED, RISE BETTERED RETURNS NOS ELFERNAND DES
INTERNAL FRICTION OF SMALL DIAMET FOR USE IN OSCILLATING DISK GAS V	ER QUARTZ W		RADIATION SICKNESS - EFFECT OF BARBITURATES - EFFECT OF ACCELERATIONS AT MOMENT OF IRRADIATION JPRS-17202 N63-11948 04-15
MEASUREMENT - SQUID PROJECT BRN-7-P	N63-19929	19-25	CENTRAL DEPRESSING ACTION OF MEDINAL BARBANIL, AND THIOPENTAL DURING ACUTE RADIATION SICKNESS IN RAIS
EFFECT OF PULSED NUCLEAR RADIATIO CRYSTAL FREQUENCY CONTROL			AND RABBITS N63-11949 04-16
USAELRDL-TR-2320 BREAKING STRENGTH AND HEAT TOLERA	N63-20672 NCE OF QUAR	20-25 TZ	TONUS OF RABBIT EYE MUSCLE UNDER WEIGHTLESSNESS NASA-TT-F-131 07-16
FIBER - IMPROVED FINISHES FOR QUA	RTZ FABRICS N63-23365	24-13	AMBIENT TEMPERATURE EFFECT ON RELATION BETWEEN SKIN TEMPERATURE AND BLOOD FLOW IN RABBIT EARS AAL-TOR-62-45 N63-19237 10-11
QUARTZ LAMP RADIANT HEAT BRAZING METAL HONEYCOMB SANDWICH CONSTRUC	OF REFRACTO	RY 03-17	SODIUM LACTATE FOR RADIATION SICKNESS IN RABBITS JPRS-20469 N63-19818 19-16
QUENCHING CF COOLING	MOVEL OTA 6	HERE A JO	THERMAL ENERGY EFFECTS ON ANTERIOR OCULAR TISSUES OF RABBITS AMRL-TOR-63-53 N63-19846 19-19
CF HEAT TREATMENT QUENCH HARDENING IN PLATINUM AND		NEW COLUMN	BURN STUDIES ON RABBITS - INTENSITY, AREA, & DEPTH OF BURN IN SKIN BURN MODEL
PRECIPITATE CLUSTERING IN BINARY SIZE RELATED TO AGING TIME IN QUE			JPRS-20950 N63-21448 22-16 EFFECT OF X-RAY IRRADIATION ON RIBOFLAVIN METABOLISM IN RABBITS N63-22368 23-16
FACTORS DETERMINING APPLICABILITY QUENCHED AND TEMPERED STEELS TO SI CONSTRUCTION NRL-5092		LL	RABBIT EYES EXPOSED TO ELECTROMAGNETIC RADIATION OF DIFFERENT SPECTRAL DISTRIBUTIONS TO COMPARE EFFECTIVENESS IN PRODUCING CHORIORETINAL BURRS AMRL-TOR-63-73.
DEFORMABLE ALUMINUM ALLOYS - HOT OF QUENCHING, INCOT CASTING, TRON, S MANGANESE, BERYLLIUM, AND MAGNESI FTD-TT-62-1272/18264	ILICON, TIT	ANIUM,	RADAR SA DOPPLER RADAR AUTOMATIC FREQUENCY CONTROL FOR A MISSILE-BORNE BEACON RADAR RECEIVER
CAUSE AND PREVENTION OF CRACKS IN			WPD-6 N63-10321 01-0
OF DEFORMABLE ALUMINUM ALLOYS - THE HIGH TEMPERATURE IN QUENCHING	HERMAL STRE	08-18	A COHERENT PULSED RADAR VELOCITY TRACKING DEMONSTRATION N63-11423 03-04
EFFECT OF TWO-STEP HEAT TREATMENT IRRADIATION DURING QUENCHING ON HE			LIGICAL UNITS IN METEORIC RADAR - PULSES, SIGNAL LIFETIME, AND NOISE N63-11526 03-00
4340 STEEL	N63-10537	14-18	TERMINAL RADAR SERVICE AREA CONTROL CONCEPT N63-11809 - 04-22
QUENCHED-IN RESISTIVITY IN DILUTE	ALLOYS N63-17205	15-18	EXOSPHERIC PROPAGATION OF BACKSCATTER SIGNALS AFCRL-62-348 N63-11896 04-08
QUENCHED ALUMINUM SINGLE CRYSTAL I SUBSTRUCTURE UCRL-10793	DISLOCATION N63-20707	21-25	COHERENT DETECTOR FOR PULSED RADARS PIBMRI-1103-62 N63-12131 05-08
NONREACTING QUENCHING COMPOUND EFF	FECT ON ION	DIVOAN I	ECHOES FROM F-REGION FIELD-ALIGNED IRREGULARITIES AFCRL-62-349 N63-12631 06-12
	N63-21945	22-11	MAN AND RADAR DISPLAYS AGARDOGRAPH-60. N63-12685 06-14
MATHEMATICAL ANALYSIS OF COMPLEX STREET THEORY OF COMBINUMERICAL METHODS, SIMULATION AND AFGRI-83-38	SYSTEMS - QUAT, GAME THE	UEUING EORY,	WEATHER RADAR RECEIVER SYSTEM - INSTRUMENTATION, RANGE CORRECTION, AND VIDEO DISPLAY N63-12758 06-21
QUEUING PROBLEMS WITH BALKING AND SP-372/001/01	RENEGING N63-15821	13-20	CORRELATION OF TIROS I CLOUD OBSERVATIONS WITH SYNOPTIC SCALE RADAR OBSERVATIONS OF PRECIPITATION AFCRL-63-223 N63-13560 06-21
QUEUING WITH RENEGING AND MULTIPLE SERVERS SP-373/000/01	463-15908	13-20	PROGRESS IN SOUNDING ROCKETS, DIAMANT SATELLITES, INSTRUMENTATION, RADAR, LAUNCHING SITES, AND SATELLITE TRACKING IN FRANCE N63-13758 OB-01
		A-012	

ILUME 21-20 TAUR THESE JOSES OF A 19-18

10N 04-1s

RATS 04-16 SS 07-16

N S 18-16

ITS 19-16 SUES 19-11 EPTH 2-16 3-11 OR 3-16

E 1-01

3-04 AL 3-08

-22 -01

-04

ES -12

-14

14 -21

10M -21

s,

MADA ASSORPTION EPPETS NAMED IN A FLIGHT MAD-1-1919 O-00 MADA ASTROMER'S MADAR SURFACES MAD-1-1919 O-00 MADA ASTROMER'S MADAR SURFACES MAD-1-1919 O-00 MADA ASTROMER'S PLANETAX SURFACES MAD-1-1919 IO-00 MADA ASTROMER'S IN THE SOLAR SYSTEM ASOR MADAR STROMER'S IN THE SOLAR SYSTEM MAD-1-1919 IO-00 MADA ASTROMER'S IN THE SOLAR SYSTEM MAD-1-1919 IO-00 MAD-1-1919 IO-	RADAR CLUTTER MAP FOR USE IN AIRCRAFT DETECTION RAL-TR-63-4 09-08	RESEARCH
THINSPORTABLE SEARCH RADAR AND SIF EQUIPMENT FOR MITTATIFE CONTROL COMPANY CATTORS FACILITY MCRI-62-700 MOS-1-1579 MCRI-62-700 MOS-1-1579 MCRI-62-700 MOS-1-1579 MCRI-62-700 MOS-1-1579 MOS-1-1579 MOS-1-1579 MOS-1-1579 MOS-1-1579 MOS-1-1579 MOS-1-1579 MOS-1-1579 MOS-1-1735 MOS-1-1731 MOS	RADAR ABSORPTION EFFECTS MEASURED IN A FLIGHT	11T-R1-5177-FR N63-23131 24-08
INCEL CA-TOO MAS-1-1579 10-00 MAS-1-67901 MASSES AND SPECIAL TITLE RADIO PROPAGATION, LOUIS PRESENT SITURING PLANETARY SURFACES (SIR-1-20 CASES) AND SPECIAL STREET RADIO PROPAGATION, LOUIS PRESENT SITURING PLANETARY SURFACES (SIR-1-20 CASES) AND SPECIAL STREET RADIO PROPAGATION OF MASSES AND SPECIAL STREET SITURING STREET RADIO PROPAGATION OF MASSES AND SPECIAL STREET SITURING STREET RADIO PROPAGATION OF MASSES AND SPECIAL STREET SITURING STREET RADIO PROPAGATION OF MASSES AND SPECIAL STREET SITURING STREET RADIO PROPAGATION OF MASSES AND SPECIAL STREET	TRANSPORTABLE SEARCH RADAR AND SIF EQUIPMENT FOR	RADAR STUDIES OF PLANETARY SURFACES N63-10227 01-12
JONGSPIET CASENDED TON, WEATHER RADAR, IF AND MISS, AND STACE TRACKING - SOUTH AFTICE SITE 12-08 (SIR-1-02 ACC TRACKING - SOUTH AFTICE SITE 12-08 (SIR-1-02 ACC TRACKING - SOUTH AFTICE SITE 12-08 (SIR-1-02 ACC TRACKING - SOUTH AFTICE SITE 13-09 ACC TRACKING - AND AFTICE	AFCRL-62-700 N63-14579 10-08	RADAR HETHODS OF STUDYING PLANETARY SURFACES
MAINFAIL DETERMINATIONS BY WEATHER RADAR ON MISTACTORY COUNTRY OF THE SATELLITE MOST-1075 SATELLITE MOST-1	IONOSPHERIC ABSORPTION, WEATHER RADAR, LF RADIO NOISE, AND SPACE TRACKING - SOUTH AFRICA	ASTRONOMICAL UNIT N63-10229 01-05
RESTRONCE OSUPRETA RELIABILITY - RADAR, GROUND COMMUNICATION MOST-17221 15-09 SMUTION OF INTEGRAL EQUATION FOR LUMAR SCATTERING PROVIDING OF INTEGRAL EQUATION FOR LUMAR SCATTERING PROVIDING OF PULSED RADAR & PHOTOGRAPHIC OATA SMEASCRESSORS WITH CONTINUOUS MAYE RADAR NOS-18051 16-20 COMPARISON OF PULSED RADAR & PHOTOGRAPHIC OATA SMEASCRESORS COMPARISON OF RADAR BACK SCATTERING PAGE SMUTION OF INTEGRAL EQUATION FOR LUMAR SCATTERING PROVIDING OF MADER BACK SCATTERING PAGE SMUTION OF PULSED RADAR & PHOTOGRAPHIC OATA SMEASCRESORS COMPARISON OF RADAR BACK SCATTERING PAGE SMUTIAL DETECTION WITH APPLICATION TO SEARCH MAGAR RADAR POSTOR SMEASCRESS ON MOS-18939 17-08 SEQUENTIAL DETECTION WITH APPLICATION TO SEARCH MAGAR RADAR POSTOR STORMS OF 1961 ROUGH RIDGE MAGAR PHOTOGRAPHS AND GUST LOADS IN THREE STORMS OF 1961 ROUGH RIDGE PILOT PERFORMANCE MOS-1973 19-21 MASSO SQUARE-LAM SEQUENTIAL DETECTOR IN SEARCH MAGAN SYSTEMS - UMRESTRICTED SIGNAL TO MISE RATIO OF 1961 ROUGH RIDGE PILOT PERFORMANCE MOS-1973 19-21 MADAR MAPS FOR WEATHER FADAR - CAPPI AND GREY SCALE PHOTOGRAPH DISPLAY MOS-1972 19-21 MADAR MAPS FOR WEATHER FORECASTING MOS-19935 19-10 MOST DULT /ABNORMAL MICHORANCE REASON SCIENCY MOS-19935 19-10 MOST DULT /ABNORMAL MICHORANCE RADAR MOS-19935 19-20 MOST DULT /ABNORMAL MICHORANCE RADAR MOS-19935 19-20 MOST DULT /ABNORMAL MICHORANCE RADAR MOS-19935 19-21 MADAR PROFER SD-209 MOS-19935 19-20 MOST DULT /ABNORMAL MICHORANCE RADAR MOS-20930 20-23 EFFECTS OF MADAR ON HUMAH BODY - HICAUSH MOST PAGE MOST DULT /ABNORMAL MICHORANCE RADAR MOST PAGE MOST DULT /ABNORMAL MICHORANCE MEASURESE AND ABS-19935 19-20 MOST DULT /ABNORMAL MICHORANCE MEASURES SHOW MOST PAGE MO	MAINFALL DETERMINATIONS BY WEATHER RADAR ON	VENUSIAN AND LUNAR RADAR DEPOLARIZATION EXPERIMENTS
ACQUISITION - CONGRESSIONAL HEARTYS COMMUNICATION OF INTEGRAL EQUATION FOR LUMAR SCATTERING FUNCTION - INSEGRAL EQUATION FOR LUMAR SCATTERING FUNCTION - HEASURING LUMAR SCATTERING PROPERTIES WITH CONTINUOUS NAVE RADA NOS-10951 10-20 CORRELATION OF PULSED RADAR & PHOTOGRAPHIC DATA MASA-CA-50336 MASA-CA-50		the state of the s
SOUTION OF INTEGRAL EQUATION FOR LUMAR SCATTERING PROPERTIES SOUTION OF INTEGRAL EQUATION FOR LUMAR SCATTERING PROPERTIES SOUTION OF INTEGRAL EQUATION OF PULSED RADAR & PHOTOGRAPHIC DATA—SURFACE SOUTION OF PULSED RADAR & PHOTOGRAPHIC DATA—SURFACE SOUTION OF PULSED RADAR & PHOTOGRAPHIC DATA—SURFACE SOUTION OF PULSED RADAR & PHOTOGRAPHIC DATA—SURFACE SOUTION—IN SCATTERING DATA—SURFACE ROUGHNESS — OILLECTRIC CONSTANT ESTIMATES RADAR DOON—IN SURFACE ROUGHNESS—OILLECTRIC CONSTANT ESTIMATES RADAR PORT OF THUMBER OF THE SURFACE ROUGHNESS—OILLECTRIC CONSTANT ESTIMATES RADAR PROPERTIES TO LUMAR SCATTERING DATA—SURFACE ROUGHNESS—OILLECTRIC CONSTANT ESTIMATES RADAR—CROSS DATA—COMPRESS—OILLECTRIC CONSTANT ESTIMATES RADAR—CROSS—ON SURFACE ROUGHNESS—OILLECTRIC CONSTANT ESTIMATES RADAR—CROSS—ON SURFACE ROUGHNESS—OILLECTRIC CONSTANT ESTIMATES RADAR—CROSS—OILLECTRIC CONSTANT OILLECTRIC CONS	COMMUNICATION	ACQUISITION - CONGRESSIONAL HEARINGS N53-10862 02-05
FINCTION — MEASURING LUMAS SCATTERING PROPERTIES INTIC CONTINUOUS MAVE RADAR NO. 8-10931 10-20 LUMAR SURFACES OF ADAR PROTOGRAPHIC DATA— SURFACE COMPARISON OF PULSED RADAR & PHOTOGRAPHIC DATA— SURFACE COMPARISON OF RADAR BACK SCATTERING HEASUREMENTS RIGH MOUNT-LIKE SURFACES TO LUMAR SCATTERING DATA SURFACE COMPARISON OF RADAR PARTICIPATION TO SCARCH M63-18395 17-08 M63-18395 17-08 M63-18395 17-08 M63-18706 18-08 M63-18707	KADU-TOK-03-140	RADAR OBSERVATIONS OF VENUS
PR-39 SAFACE GEORGETRY MASH-CE-50338 MASH-CR-50339 MASH-CR-50339 MASH-CE-50339 MASH-CR-50339 MASH-C	FUNCTION - MEASURING LUNAR SCATTERING PROPERTIES	LUNAR SURFACES - RADAR AND PHOTOGRAPHIC
MASH-CR-50330 Me3-18322 17-08 COMPARISON OF BADAR BACK SCATTERING NEASUREMENTS ROBOR MODELINE SURPACES TO LUMAN SCATTERING DATA NOS-18395 17-08 NASA-CR-503304 MESS - DIELECTRIC COMMAN SCATTERING DATA NASA-18395 17-08 SEQUENTIAL DETECTION WITH APPLICATION TO SEARCH RADAR PROPOSAL - CONGRESSIONAL MEARING DATA RADAR PREFERATION OF THUMDERSTORMS BY AIRCRAFT FLYING AT SUPERSONIC SPEEDS - RADAR PHOTOGRAPHS AND GUST LODS IN THREE STORMS OF 1961 ROUGH RIDER NOS-19173 18-21 NASA-19173 18-21 NASA-19173 18-21 NASA-19173 18-21 NASA-19175 19-21 NASA-19175 19-21 NASA-19175 19-21 NASA-19175 19-21 NADIO REPORT NATION OF THUMDERSTORMS BY AIRCRAFT FLYING AT SUPERSONIC SPEEDS - RADAR PHOTOGRAPHS AND GUST LODS IN THREE STORMS OF 1961 ROUGH RIDER NOS-19175 19-21 NASA-19175 19-21 NASA-19175 19-21 NASA-19175 19-21 NASA-19175 19-21 NASA-19175 19-21 NADIO REPORT NATION OF THUMDERSTORMS BY AIRCRAFT NASA-19175 19-21 NASA-19175 19-21 NASA-19175 19-21 NASA-19175 19-21 NADAR MARTINAL NICE STORMS OF 1961 ROUGH RIDER NOS-19175 19-21 NASA-19175 19-21 NASA-19175 19-21 NASA-19175 19-21 NASA-19175 19-21 NADAR MARTINAL NICE STORMS OF 1961 ROUGH RIDER NOS-19175 19-21 NASA-19175		
CORPARISON OF RADAR BACK SCATTERING MEASUREMENTS SUPPLIES SURFACE TO LUMBA SCATTERING DATA SURFACE ROUGINESS — DIELECTRIC CONSTANT ESTIMATES SURFACE ROUGINESS — DIELECTRIC CONSTANT ESTIMATES SEQUENTIAL DETECTION WITH APPLICATION TO SEARCH RADAR RADATSTP-R N63-1899 17-08 RADAR RADATSTP-R N63-1897 18-08 RR-JT57-PR N63-1907 18-08 BIBLIDGRAPHY - RADAR ASTRONOMY N63-17909 16-05 BIBLIDGRAPHY - RADAR ASTRONOMY N63-1790 16-05 BIBLIDGRAPHY - RADAR ASTRONOMY N63-17910 16-05 BIBLIDGRAPHY - RADAR ASTRONOMY N63-179		RADIO & RADAR ASTRONOMY - SUGAR GROVE FACILITY.
NASA-CR-50304 N63-18395 17-08 SEQUENTIAL DETECTION WITH APPLICATION TO SEARCH ADDR ARADR ARASTST-PR N63-18976 18-08 RADAR CREECTION ARASTST-PR N63-18976 18-08 BELICERAPHY - RADAR ASTROWGHY AD-294683 BILLIBRETOR AND CONSTRUCTION OF RADAR ASTROWGHY AD-294683 BELICERAPHY - RADAR ASTROWGHY AD-294683 BELICERAPHY - RADAR ASTROWGHY AD-294683 BILLIBRETOR AND CONSTRUCTION OF RADAR ASTROWGHY AD-294683 BILLIBRETOR AND RADAR ASTROWGHY AC	FROM MOON-LIKE SURFACES TO LUNAR SCATTERING DATA	OBSERVATORY PROPOSAL - CONGRESSIONAL HEARINGS
MADAR PHOTOGRAPHS AND GUST LOADS IN THREE STORMS OF 1961 ROUGH RIDER MADAR PHOTOGRAPHS AND GUST LOADS IN THREE STORMS OF 1961 ROUGH RIDER MADAR PHOTOGRAPHS AND GUST LOADS IN THREE STORMS OF 1961 ROUGH RIDER MADAR PHOTOGRAPHS AND GUST LOADS IN THREE STORMS OF 1961 ROUGH RIDER MADAR PHOTOGRAPHS AND GUST LOADS IN THREE STORMS OF 1961 ROUGH RIDER MADAR PHOTOGRAPHS AND GUST LOADS IN THREE STORMS OF 1961 ROUGH RIDER MADAR PHOTOGRAPHS AND GUST LOADS IN THREE STORMS OF 1961 ROUGH RIDER MADAR PHOTOGRAPHS AND GUST LOADS IN THREE STORMS OF 1961 ROUGH RIDER MADAR PHOTOGRAPHS AND GUST LOADS IN THREE STORMS OF 1961 ROUGH RIDER MADAR PHOTOGRAPHS AND GUST LOADS IN THREE STORMS OF 1961 ROUGH RIDER MADAR PHOTOGRAPHS AND GUST LOADS IN THREE STORMS OF 1961 ROUGH RIDER AND RANGE RESARCH PHOTOGRAPH AND RESPONSE OF 1962 RADAR RATE OF 1961 ROUGH RIDER AND RANGE RESIDENCE OF 1962 RADAR RATE RADAR CAPPI AND RESPONSE OF 1962 RADAR RADAR PLAN POSITION INDICATOR PPI/ MASS-19721 19-21 RADAR AND RESPONSE OF 1962 RADAR PLAN POSITION INDICATOR PPI/ MASS-19721 19-21 RADAR PLAN POSITION INDICATOR PPI/ MASS-19721 19-21 RADAR ASTRONOMY NAS-19721 ROUGH RIDER AND RANGE RESIDENCE OF 1962 RADAR RATE RADAR PLAN POSITION INDICATOR PRIVATE RADAR PLAN POSITION INDICATOR PPI/ MASS-19721 ROUGH RIDER AND RANGE RESIDENCE OF 1962 RADAR RATE RADAR PLAN POSITION INDICATOR PPI/ MASS-19721 ROUGH RIDER AND RANGE RESIDENCE OF 1962 RADAR RADAR PRIVATE RADAR RECEPTION RASS-12264 21-09 RADAR RADAR RADAR RADAR RADAR RADAR RADAR RADAR PRIVATE RADAR PRIV	NASA-CR-50304 N63-18395 17-0	ASTRONOMICAL UNIT AND VENUS ROTATION REFLECTION
PRETRATION OF THUNDERSTORMS BY AIRCRAFT FLYING AT SUPPRSONIC SPEEDS - RADAR PHOTOGRAPHS AND GUST NO-19173 18-21 MOS-19173 18-21 MOS-19175 19-21 MOS-19175 19-21 MOS-19175 18-21 MOS-19175 MOS-	RADAR	BIBLIOGRAPHY - RADAR ASTRONOMY
LOADS IN THREE STORMS OF 1961 ROUGH RIDER NSSP-15 NSSP	PENETRATION OF THUNDERSTORMS BY AIRCRAFT FLYING A	AU-294083 10-03
OF 1961 ROUGH RIDER - PILOT PERFORMANCE M63-19175 19-21 M63-19175 19-21 M63-19175 19-21 M63-19175 19-21 M63-19175 19-21 M63-19402 19-08 M63-19402 19-08 M63-19402 19-08 M63-19402 19-08 M63-19402 19-08 M63-19402 19-08 M63-19403 19-21 RADAR CROSS SECTION REFLAMINATION OF HINIMUM RANGE CRITERIA FOR RADAR CROSS SECTION MEASURERY CALGENISMS OF MINIMUM RANGE CRITERIA FOR RADAR CROSS SECTION MEASURERY CALGENISMS OF COMES AFGRI-63-449 M63-19675 19-21 M63-19675 19-21 M63-19675 19-21 M63-19675 19-21 M63-19675 19-21 M63-1971 19-21 M63-19	LOADS IN THREE STORMS OF 1961 ROUGH RIDER	PARABOLIC ANTENNAS FOR RADIO AND RADAR ASTRONOMY.
SURRIQUOIDING BLUNT BODY REENTERING EARTH AIMOSPHEAE CARDE-TR-466 N63-22924 23-24 MADAR SYSTEMS - UNRESTRICTED SIGNAL TO NOISE RATIO NH-3759-PR N63-19402 19-08 N63-19402 19-08 RADAR CROSS SECTION NEASUREMENT TO NOISE RATIO NH-3759-PR N63-19402 19-08 REPORT NEASUREMENT TO NOISE RATIO NH-3759-PR N63-19402 19-08 REPORT N63-19402 19-08 REPORT N63-19402 19-08 REPORT N63-19402 N63-1968 19-21 RADAR DIFFRACTION AND SCATTERING CROSS SECTION OF CAL-GH-1580-G-101 N63-15945 13-06 CAL-GH-1580-G-101 N63-15945 N63-	MARIE BURTOCHARUS AND CHET LOADS IN TUBES STORMS	
RADAR SYSTEMS - UNRESTRICTED SIGNAL TO NOISE RATIO M63-19402 M63-19402 FIVE-DIMENSIONAL MEATHER RÂDAR - CAPPI AND GREY SCALE PHOTOGRAPH DISPLAY AFCAL-63-449 M63-19628 RADAR OFFA RADAR DIFFRACTION AND SCATTERING CROSS SECTIONS OF CONES RADAR DIFFRACTION AND SCATTERING CROSS SECTIONS OF CONES AFGAL-63-29 RADAR DIFFRACTION AND SCATTERING CROSS SECTIONS OF CONES AFGAL-63-29 RADAR DIFFRACTION AND SCATTERING CROSS SECTIONS OF CONES AFGAL-63-29 RADAR DIFFRACTION AND SCATTERING CROSS SECTIONS OF CONES AFGAL-63-29 RADAR DATA APPLIED TO FORECASTING OF TERMINAL MEATHER CONDITIONS M63-1171C M63-1		
FIVE-DIMENSIONAL WEATHER RADAR - CAPPI AND GREY AFCRI-63-449 A63-19628 ABJOR DIFFRACTION AND SCATTERING CROSS SECTIONS OF CONES AFCRI-63-499 ABJOR DUCT /ABMORMAL MICROMAVE TRANSMISSION/ ON A MEATHER RADAR PLAN POSITION INDICATOR /PPI/ ASIC-38 AGAIN DUCT /ABMORMAL MICROMAVE TRANSMISSION/ ON A MEATHER RADAR PLAN POSITION INDICATOR /PPI/ ASIC-38 AGAIN DATA APPLIED TO FORECASTING OF TERMINAL MEATHER CONDITIONS AFCRI-62-1019 AFCRI-	OF 1961 ROUGH RIDER - PILOT PERFORMANCE	INTERACTION OF RADAR BEAM WITH IDNIZED GASES SURROUNDING BLUNT BODY REENTERING EARTH AIMOSPHERE
RADAR MAPS FOR WEATHER FORECASTING N63-19675 19-21 RADIO DUCT /ABNORMAL HICROMAVE TRANSHISSION/ ON A WEATHER RADAR PLAN POSITION INDICATOR /PPI/ SIG-38 N63-19721 19-21 VERY HIGH FREQUENCY RADAR ABSORBERS AND AMECHOIC ROOMS NASA-CR-50753 N63-19855 19-10 RADAR ECHO STATIC BEHAVIOR OF RADAR ECHOES FROM AIRCRAFT MGL AND RANGE MEASUREMENT N63-20319 20-32 EFFECTS OF RADAR ON HUMAN BODY - MICROMAVE N63-20589 20-16 RADAR ANTENNA - GEODESIC LENS WITH FLUSH-HOUNTED N63-21224 21-09 ULTRAHIGH FREQUENCY CONTINUOUS NAVE REFLECTION N63-21264 21-08 MILLIMETER MAVELENGTH RADARS TO STUDY PLASMA EFFECTS OF HYPERSONIC VELOCITY PROJECTILES - REPRETENT OF HYPERSONIC VELOCITY PROJECTILES - REPRETENT OF RADAR OBSERVATIONS CHEME FOR CYCLONES, PRECIPITATION, AND N63-2139 09-21 RADAR RADAR RANGE CALCULATION PRES-21139 N63-21101 22-08 METEOR RADAR OBSERVATIONS - ECHOES, AZIMUTH, AND NETEOR RADAR OBSERVATIONS - ECHOES, AZIMUTH, AND NETEOR RADAR OBSERVATIONS - ECHOES, AZIMUTH, AND	OF 1961 ROUGH RIDER - PILOT PERFORMANCE M63-19175 18-2. BIASED SQUARE-LAM SEQUENTIAL DETECTOR IN SEARCH RADAR SYSTEMS - UNRESTRICTED SIGNAL TO NOISE RATIO	INTERACTION OF RADAR ZEAM MITH IONIZED GASES. SURROUNDING BLUNT BODY REENTERING EARTH AIMOSPHERE CARDE-TR-466 RADAR CROSS SECTION RE-EXAMINATION OF MINIMUM RANGE CRITERIA FOR RADAR
RADIO DUCT /ABNORMAL MICROWAYE TRANSMISSION/ ON A WEATHER CANDITION INDICATOR /PPI/ M63-19721 19-21 VERY HIGH FREQUENCY RADAR ABSORBERS AND ANECHOIC ROOKS MASA-CR-50753 M63-1985 19-10 M63-1985 19-10 M63-1038 01-08 GEMINI RENDEZYOUS PULSED TRANSPONDER RADAR - N63-20319 20-32 EFFECTS OF RADAR ON HUMAN BODY - MICROWAYE RADIATION EFFECTS M63-20589 20-16 RADAR ANTENNA - GEODESIC LENS WITH FLUSH-MOUNTED N63-21224 21-09 M63-21224 21-09 ULTRAHIGH FREQUENCY CONTINUOUS WAVE REFLECTION MEASURING SYSTEM MO3-21552 22-24 MADAR DATA RADAR DATA RADAR ARAGE CALCULATION M63-2151 22-08 RADAR ARAGE CALCULATION M63-2101 22-08 METEOR RADAR OBSERVATIONS - ECHOES, AZIMUTH, AND	OF 1961 ROUGH RIDER - PILOT PERFORMANCE M63-19175 18-2 BIASED SQUARE-LAW SEQUENTIAL DETECTOR IN SEARCH RADAR SYSTEMS - UNRESTRICTED SIGNAL TO NOISE RATIG M63-19402 19-0 FIVE-DIMENSIONAL MEATHER RÂDAR - CAPPI AND GREY SCALE PHOTOGRAPH DISPLAY	INTERACTION OF RADAR ZEAM MITH IDVIZED GASES SURROUNDING BLUNT BODY REENTERING EARTH AIMOSPHERE CARDE-TR-466 N63-22924 23-24 RADAR CROSS SECTION RE-EXAMINATION OF MINIMUM RANGE CRITERIA FOR RADAR CROSS SECTION MEASUREMENT CAL-GM-1580-G-101 N63-15945 13-06
RADIO DUCT /ABNORMAL MICROWAVE TRANSMISSION/ ON A WEATHER RADAR PLAN POSITION INDICATOR /PPI/ MEATHER RADAR PLAN POSITION INDICATOR /PPI/ MEATHER CONDITIONS N63-19721 19-21 VERY HIGH FREQUENCY RADAR ABSORBERS AND ANECHOIC ROOKS NASA-CR-50753 NASA-CR-5	OF 1961 ROUGH RIDER - PILOT PERFORMANCE M63-19175 18-2 BIASED SQUARE-LAM SEQUENTIAL DETECTOR IN SEARCH RADAR SYSTEMS - UNRESTRICTED SIGNAL TO NOISE RATION N63-19402 19-0 FIVE-DIMENSIONAL MEATHER RADAR - CAPPI AND GREY SCALE PHOTOGRAPH DISPLAY AFCRL-63-449 N63-19628 19-2	INTERACTION OF RADAR ZEAM MITH IONIZED GASES. SURROUNDING BLUNT BODY REENTERING EARTH AIMOSPHEAD CARDE-TR-466 N63-22924 23-24 RADAR CROSS SECTION RE-EXAMINATION OF MINIMUM RANGE CRITERIA FOR RADAR CROSS SECTION MEASUREMENT CAL-GM-1580-G-101 N63-15945 13-06 RADAR DIFFRACTION AND SCATTERING CROSS SECTIONS OF COMES
VERY HIGH FREQUENCY RADAR ABSORBERS AND ANECHOIC ROOKS NASA-CR-50753 N63-19855 19-10 N63-19855 19-10 N61 PAPER-42 N63-10038 N6	OF 1961 ROUGH RIDER - PILOT PERFORMANCE M63-19175 18-2. BIASED SQUARE-LAM SEQUENTIAL DETECTOR IN SEARCH RADAR SYSTEMS - UNRESTRICTED SIGNAL TO NOISE RATTI RH-3759-PR	INTERACTION OF RADAR ZEAM WITH IONIZED GASES. SURROUNDING BLUNT BODY REENTERING EARTH AIMOSPHERE CARDE-TR-466 RADAR CROSS SECTION RE-EXAMINATION OF MINIMUM RANGE CRITERIA FOR RADAR CROSS SECTION MEASUREMENT CAL-GH-1580-G-101 RADAR DIFFRACTION AND SCATTERING CROSS SECTIONS OF COMES AFGRL-63-29 N63-18269 17-08
ROORS MASA-CR-50753	OF 1961 ROUGH RIDER - PILOT PERFORMANCE M63-19175 18-2 BIASED SQUARE-LAW SEQUENTIAL DETECTOR IN SEARCH RADAR SYSTEMS - UNRESTRICTED SIGNAL TO NOISE RATION M63-19402 19-0 FIVE-DIMENSIONAL MEATHER RADAR - CAPPI AND GREY SCALE PHOTOGRAPH DISPLAY AFCRL-63-449 N63-19628 19-2 RADAR MAPS FOR MEATHER FORECASTING M63-19675 19-2 RADIO DUCT /ABNORMAL MICROMAVE TRANSMISSION/ ON A MEATHER RADAR PLAN POSITION INDICATOR /PPI/	INTERACTION OF RADAR ZEAM WITH IONIZED GASES. SURROUNDING BLUNT BODY REENTERING EARTH AIMOSPHERE CARDE-TR-466 N63-22924 23-24 RADAR CROSS SECTION RE-EXAMINATION OF MINIMUM RANGE CRITERIA FOR RADAR CROSS SECTION MEASUREMENT CAL-GM-1580-G-101 N63-15945 13-06 RADAR DIFFRACTION AND SCATTERING CROSS SECTIONS OF COMES AFCRL-63-29 N63-18269 17-08 RADAR DATA RADAR DATA RADAR DATA RADAR DATA RADAR CONDITIONS
RADAR ANTENNA - GEODESIC LENS WITH FLUSH-HOUNTED N63-21224 21-09 ULTRAHIGH FREQUENCY CONTINUOUS WAVE REFLECTION N63-21264 21-08 MEASURING SYSTEM MEASURIN	OF 1961 ROUGH RIDER - PILOT PERFORMANCE M63-19175 18-2 BIASED SQUARE-LAM SEQUENTIAL DETECTOR IN SEARCH RADAR SYSTEMS - UNRESTRICTED SIGNAL TO NOISE RATTI RH-3759-PR N63-19402 19-0 FIVE-DIMENSIONAL MEATHER RADAR - CAPPI AND GREY SCALE PHOTOGRAPH DISPLAY AFCRL-63-449 N63-19628 19-2 RADAR MAPS FOR MEATHER FORECASTING N63-19675 19-2 RADIO DUCT /ABNORMAL MICROMAVE TRANSMISSION/ GN A MEATHER RADAR PLAN POSITION INDICATOR /PPI/ RSIG-38 N63-19721 19-2	INTERACTION OF RADAR ZEAM WITH IONIZED GASES. SURROUNDING BLUNT BODY REENTERING EARTH AIMOSPHERE CARDE-TR-466 RADAR CROSS SECTION RE-EXAMINATION OF MINIMUM RANGE CRITERIA FOR RADAR CROSS SECTION MEASUREMENT CAL-GM-1580-G-101 RADAR DIFFRACTION AND SCATTERING CROSS SECTIONS OF CONES AFGRL-63-29 RADAR DATA RADAR DATA RADAR DATA RADAR DATA ARDAR DATA
FIELD-ALIGNED TRREGULARIFIES IN RADAR ECHOES FROM THE E-REGION RADAR ANTENNA - GEODESIC LENS WITH FLUSH-MOUNTED N63-21224 21-09 ULTRAHIGH FREQUENCY CONTINUOUS MAVE REFLECTION N63-21264 21-08 MILLINETER WAVELENGTH RADARS TO STUDY PLASHA EFFECTS OF HYPERSONIC VELOCITY PROJECTILES - REFRECTS OF HYPERSONIC VELOCITY PROJECTILES - REFRECTS OF HYPERSONIC VELOCITY PROJECTILES - RECTANGE CALCULATION N63-21552 22-24 MADAR RANGE CALCULATION N63-21101 22-08 METEOR RADAR OBSERVATIONS - ECHOES, AZIMUTH, AND N63-21139 N63-22101 22-08 METEOR RADAR OBSERVATIONS - ECHOES, AZIMUTH, AND	OF 1961 ROUGH RIDER - PILOT PERFORMANCE M63-19175 18-2 BIASED SQUARE-LAM SEQUENTIAL DETECTOR IN SEARCH RADAR SYSTEMS - UNRESTRICTED SIGNAL TO NOISE RATTI RH-3759-PR	INTERACTION OF RADAR 2EAM WITH IONIZED GASES. SURROUNDING BLUNT BODY REENTERING EARTH AIMOSPHERE CARDE-TR-466 RADAR CROSS SECTION RE-EXAMINATION OF MINIMUM RANGE CRITERIA FOR RADAR CROSS SECTION MEASUREMENT CAL-GH-1580-G-101 RADAR DIFFRACTION AND SCATTERING CROSS SECTIONS OF CONES AFGRL-63-29 RADAR DATA SECHO STATIC BEHAVIOR OF RADAR ECHOES FROM AIRCRAFT MGL PAPER-42 N63-10038 91-08
RADAR ANTENNA - GEODESIC LENS WITH FLUSH-MOUNTED N63-21224 21-09 ULTRAHIGH FREQUENCY CONTINUOUS WAVE REFLECTION N63-21264 21-08 MILLINETER MAVELENGTH RADARS TO STUDY PLASHA EFFECTS OF HYPERSONIC VELOCITY PROJECTILES - REENTRY EFFECTS RADAR CLUTTER MAP FOR USE IN AIRCRAFT DETECTION N63-13797 09-08 SYNOPTIC METEOROLOGY - RADAR COMPOSITES, ECHO CLASSIFICATION SCHEME FOR CYCLOMES, PRECIPITATION, CLASSIFICATION SCHEME FOR CYCLOMES, PRECIPITATION, CLASSIFICATION SCHEME FOR CYCLOMES, PRECIPITATION, AFCRL-63-22 N63-13618 09-21 METEOR RADAR OBSERVATIONS - ECHOES, AZIMUTH, AND	OF 1961 ROUGH RIDER - PILOT PERFORMANCE M63-19175 18-2. BIASED SQUARE-LAM SEQUENTIAL DETECTOR IN SEARCH RADAR SYSTEMS - UNRESTRICTED SIGNAL TO NOISE RATTI RH-3759-PR N63-19402 19-0 FIVE-DIMENSIONAL MEATHER RADAR - CAPPI AND GREY SCALE PHOTOGRAPH DISPLAY AFCRL-63-449 N63-19628 19-2 RADAR MAPS FOR MEATHER FORECASTING M63-19675 19-2 RADIO DUCT /ABNORMAL MICROMAVE TRANSMISSION/ ON A MEATHER RADAR PLAN POSITION INDICATOR /PPI/ MSIC-38 M63-19721 19-2 VERY HIGH FREQUENCY RADAR ABSORBERS AND AMECHOIC ROOMS NASA-CR-50753 19-1 GEMINI RENDEZYOUS PULSED TRANSPONDER RADAR - INTERFEROMETER ANGLE AND RANGE MEASUREMENT	INTERACTION OF RADAR 2EAM WITH IONIZED GASES. SURROUNDING BLUNT BODY REENTERING EARTH AIMOSPHERE CARDE-TR-466 N63-22924 23-24 RADAR CROSS SECTION RE-EXAMINATION OF MINIMUM RANGE CRITERIA FOR RADAR CROSS SECTION MEASUREMENT CAL-GM-1580-G-101 N63-15945 13-06 RADAR DIFFRACTION AND SCATTERING CROSS SECTIONS OF COMES AFCRL-63-29 N63-18269 17-08 RADAR DATA RADAR DATA RADAR DATA RADAR DATA RADAR CONDITIONS AFCRL-62-1019 N63-1171C 04-21 RADAR ECHO STATIC BEHAVIOR OF RADAR ECHOES FROM AIRCRAFT MGL PAPER-42 N63-10038 01-08 RADAR METHODS OF STUDYING THE EARTHS IDNOSPHERE N63-10226 01-12
ULTRAHIGH FREQUENCY CONTINUOUS WAVE REFLECTION MEASURING SYSTEM MO3-21264 M	OF 1961 ROUGH RIDER - PILOT PERFORMANCE BIASED SQUARE-LAM SEQUENTIAL DETECTOR IN SEARCH RADAR SYSTEMS - UNRESTRICTED SIGNAL TO NOISE RATTI RH-3759-PR	INTERACTION OF RADAR 2EAM WITH IONIZED GASES. SURROUNDING BLUNT BODY REENTERING EARTH AIMOSPHEAE CARDE-TR-466 RADAR CROSS SECTION RE-EXAMINATION OF MINIMUM RANGE CRITERIA FOR RADAR CROSS SECTION MEASUREMENT CAL-GM-1580-G-101 RADAR DIFFRACTION AND SCATTERING CROSS SECTIONS OF COMES AFCRL-63-29 RADAR DATA RADAR COMDITIONS AFCRL-62-1019 RADAR ECHO STATIC BEHAVIOR OF RADAR ECHDES FROM AIRCRAFT MGL PAPER-42 RADAR METHODS OF STUDYING THE EARTHS IONOSPHERE N63-10226 O1-12 FIELD-ALIGNED IRREGULARITIES IN RADAR ECHDES FROM THE E-REGION
MEASURING SYSTEM N63-21264 ARADAR CLUTTER MAP FOR USE IN AIRCRAFT DETECTION RAL-TH-63-4 N63-13797 09-08 MILLIMETER MAYELENGTH RADARS TO STUDY PLASHA EFFECTS OF HYPERSONIC VELOCITY PROJECTILES - SYNOPTIC METEOROLOGY - RADAR COMPOSITES, ECHO CLASSIFICATION SCHEME FOR CYCLOMES, PRECIPITATION, TR-63-2178 N63-21552 RADAR RANGE CALCULATION JPRS-21139 N63-22101 N63-22101 N63-2201 N63-22101 N63-22101 N63-22101 METEOR RADAR OBSERVATIONS - ECHOES, AZIMUTH, AND	OF 1961 ROUGH RIDER - PILOT PERFORMANCE **R63-19175** 18-2** **BIASED SQUARE-LAM SEQUENTIAL DETECTOR IN SEARCH RADAR SYSTEMS - UNRESTRICTED SIGNAL TO NOISE RATTI **RH-3759-PR**	INTERACTION OF RADAR 2EAM WITH IONIZED GASES. SURROUNDING BLUNT BODY REENTERING EARTH AIMOSPHERE CARDE-TR-466 RADAR CROSS SECTION RE-EXAMINATION OF MINIMUM RANGE CRITERIA FOR RADAR CROSS SECTION MEASUREMENT CAL-GM-1580-G-101 RADAR DIFFRACTION AND SCATTERING CROSS SECTIONS OF CONES AFCRL-63-29 RADAR DATA RADAR DATA RADAR DATA RADAR DATA RADAR DATA RADAR CATO STATIC BEHAVIOR OF RADAR ECHOES FROM AIRCRAFT NGL PAPER-42 RADAR METHODS OF STUDYING THE EARTHS IONOSPHERE N63-10226 O1-12 FIELD-ALIGNED IRREGULARITIES IN RADAR ECHOES FROM THE E-REGION AFCRL-62-331 N63-11896 O4-12 RADAR PRECIPITATION ECHO AND SATELLITE CLOUD
FFFECTS OF HYPERSONIC VELOCITY PROJECTILES - SYNOPTIC METEOROLOGY - RADAR COMPOSITES, ECHO CLASSIFICATION SCHEME FOR CYCLOMES, PRECIPITATION, TR-63-2178 RADAR RANGE CALCULATION JPRS-21139 N63-22101 22-08 NETEOR RADAR COMPOSITES, ECHO CLASSIFICATION SCHEME FOR CYCLOMES, PRECIPITATION, CLASSIFICATION SCHEME FOR CYCLOMES, PRECIPITATION SCHEME, CLASSIFICATION SCHEME, CLASSIFICATION SCHEME, CLASSIFICATION SCHEME, CA	OF 1961 ROUGH RIDER - PILOT PERFORMANCE **R63-19175** 18-2** **BIASED SQUARE-LAM SEQUENTIAL DETECTOR IN SEARCH RADAR SYSTEMS - UNRESTRICTED SIGNAL TO NOISE RATTI **RH-3759-PR** N63-19402** 19-0** **FIVE-DIMENSIONAL WEATHER RADAR - CAPPI AND GREY SCALE PHOTOGRAPH DISPLAY **AFCRL-63-469** N63-19628** 19-2** **RADAR MAPS FOR WEATHER FORECASTING **N63-19675** 19-2** **RADAR MAPS FOR WEATHER FORECASTING **N63-19675** 19-2** **RADIO DUCT /ABNORMAL MICROMAVE TRANSMISSION/ ON A **WEATHER RADAR PLAN POSITION INDICATOR /PPI/ **RSIC-38** N63-19855** 19-1** **REY HIGH FREQUENCY RADAR ABSORBERS AND ANECHOIC **ROOMS** **N63-2075** N63-19855** 19-1** **GENINI RENDEZYOUS PULSED TRANSPONDER RADAR - **INTERFEROMETER ANGLE AND RANGE MEASUREMENT **AIAA PAPER 63-350** N63-20319** 20-3** **EFFECTS OF RADAR ON HUMAN BODY - MICROWAVE **RADIATION EFFECTS** **RADAR ANTENNA - GEODESIC LENS WITH FLUSH-MOUNTED **RED*** **RADAR ANTENNA - GEODESIC LENS WITH FLUSH-MOUNTED **RED*** **RADAR ANTENNA - GEODESIC LENS WITH FLUSH-MOUNTED *	INTERACTION OF RADAR 2EAM WITH IONIZED GASES. SURROUNDING BLUNT BODY REENTERING EARTH AIMOSPHERE CARDE-TR-466 RADAR CROSS SECTION RE-EXAMINATION OF MINIMUM RANGE CRITERIA FOR RADAR CROSS SECTION MEASUREMENT CAL-GM-1580-G-101 RADAR DIFFRACTION AND SCATTERING CROSS SECTIONS OF COMES AFCRL-63-29 RADAR DATA RADAR DATA RADAR DATA RADAR DATA RADAR DATA RADAR COMDITIONS AFCRL-62-1019 RADAR ECHO STATIC BEHAVIOR OF RADAR ECHOES FROM AIRCRAFT MGL PAPER-42 RADAR METHODS OF STUDYING THE EARTHS IONOSPHERE N63-10226 THE E-REGION AFCRL-62-351 RADAR PRECIPITATION ECHO AND SATELLITE CLOUD OBSERVATIONS OF MARITIME CYCLONE N63-13546 08-21
REENTRY EFFECTS TR-63-2178 N63-21552 CLASSIFICATION SCHEME FOR CYCLOMES, PRECIPITATION, CLOUD VISIBILITY, TURBULENCE AND ICING AFCRL-63-22 N63-13818 O9-21 JPRS-21139 N63-22101 22-08 METEOR RADAR OBSERVATIONS - ECHOES, AZIMUTH, AND	OF 1961 ROUGH RIDER - PILOT PERFORMANCE M63-19175 18-2 BIASED SQUARE-LAM SEQUENTIAL DETECTOR IN SEARCH RADAR SYSTEMS - UNRESTRICTED SIGNAL TO NOISE RATTI RH-3759-PR	INTERACTION OF RADAR 2EAM WITH IONIZED GASES. SURROUNDING BLUNT BODY REENTERING EARTH AIMOSPHERE CARDE-TR-466 RADAR CROSS SECTION RE-EXAMINATION OF MINIMUM RANGE CRITERIA FOR RADAR CROSS SECTION MEASUREMENT CAL-GM-1580-G-101 RADAR DIFFRACTION AND SCATTERING CROSS SECTIONS OF COMES AFCRL-63-29 N63-18269 RADAR DATA RADAR DATA RADAR DATA RADAR DATA RADAR DATA RADAR COMDITIONS AFCRL-62-1019 RADAR ECHO STATIC BEHAVIOR OF RADAR ECHDES FROM AIRCRAFT MGL PAPER-42 RADAR METHODS OF STUDYING THE EARTHS IONOSPHERE N63-10028 01-08 RADAR METHODS OF STUDYING THE EARTHS IONOSPHERE N63-10226 01-12 FIELD-ALIGNED IRREGULARITIES IN RADAR ECHDES FROM THE E-REGION AFCRL-62-351 RADAR PRECIPITATION ECHO AND SATELLITE CLOUD OBSERVATIONS OF MARITIME CYCLONE N63-13546 00-21 RADAR CLUTTER MAP FOR USE IN AIRCRAFT DETECTION N63-13797 00-08
PRS-2119 N63-22101 22-08 NETEOR RADAR OBSERVATIONS - ECHOES, AZIMUTH, AND	OF 1961 ROUGH RIDER - PILOT PERFORMANCE M63-19175 18-2 BIASED SQUARE-LAW SEQUENTIAL DETECTOR IN SEARCH RADAR SYSTEMS - UNRESTRICTED SIGNAL TO NOISE RATTI RH-3759-PR - UNRESTRICTED SIGNAL TO NOISE RATTI	INTERACTION OF RADAR 2EAM WITH IONIZED GASES. SURROUNDING BLUNT BODY REENTERING EARTH AIMOSPHEAE CARDE-TR-466 RADAR CROSS SECTION RE-EXAMINATION OF MINIMUM RANGE CRITERIA FOR RADAR CROSS SECTION MEASUREMENT CAL-GM-1580-G-101 RADAR DIFFRACTION AND SCATTERING CROSS SECTIONS OF COMES AFCRL-63-29 N63-18269 RADAR DATA RADAR DATA RADAR DATA RADAR DATA RADAR DATA RADAR COMPITIONS AFCRL-62-1019 RADAR ECHO STATIC BEHAVIOR OF RADAR ECHDES FROM AIRCRAFT WGL PAPER-42 RADAR METHODS OF STUDYING THE EARTHS IONOSPHERE N63-10028 01-12 FIELD-ALIGNED IRREGULARITIES IN RADAR ECHDES FROM THE E-REGION AFCRL-62-351 RADAR PRECIPITATION ECHO AND SATELLITE CLOUD OBSERVATIONS OF MARITIME CYCLONE N63-13797 09-08 SYNOPTIC METEOROLOGY - RADAR COMPOSITES, ECHO
	OF 1961 ROUGH RIDER - PILOT PERFORMANCE BIASED SQUARE-LAM SEQUENTIAL DETECTOR IN SEARCH RADAR SYSTEMS - UNRESTRICTED SIGNAL TO NOISE RATTI RH-3759-PR N63-19402 19-00 FIVE-DIMENSIONAL MEATHER RADAR - CAPPI AND GREY SCALE PHOTOGRAPH DISPLAY AFCRL-63-449 N63-19628 19-2 RADAR MAPS FOR MEATHER FORECASTING N63-19675 19-2 RADIO DUCT /ABNORMAL MICROMAVE TRANSMISSION/ ON A MEATHER RADAR PLAN POSITION INDICATOR /PPI/ RSIC-38 N63-19721 19-2 VERY HIGH FREQUENCY RADAR ABSORBERS AND AMECHOIC ROOMS NASA-CR-50753 N63-19855 19-1 GEMINI RENDEZVOUS PULSED TRANSPONDER RADAR - INTERFEROMETER ANGLE AND RANGE MEASUREMENT AIAA PAPER 63-350 N63-20319 20-3 EFFECTS OF RADAR ON HUMAN BODY - MICROMAVE RADIATION EFFECTS N63-220589 20-1 RADAR ANTENNA - GEODESIC LEMS WITH FLUSH-MOUNTED FEED N63-21224 21-0 WITRAHIGH FREQUENCY CONTINUOUS MAVE REFLECTION NEASURING SYSTEM N63-21264 21-0 MILLIMETER MAVELENGTH RADARS TO STUDY PLASMA EFFECTS OF HYPERSONIC VELOCITY PROJECTILES - REENTRY EFFECTS R-63-2178 N63-21552 22-2	INTERACTION OF RADAR 2EAM WITH IONIZED GASES. SURROUNDING BLUNT BODY REENTERING EARTH AIMOSPHEAE CARDE-TR-466 RADAR CROSS SECTION RE-EXAMINATION OF MINIMUM RANGE CRITERIA FOR RADAR CROSS SECTION MEASUREMENT CAL-GM-1580-G-101 RADAR DIFFRACTION AND SCATTERING CROSS SECTIONS OF COMES AFCRL-63-29 RADAR DATA RADAR DATA RADAR DATA RADAR DATA RADAR DATA RADAR DATA RADAR COMDITIONS AFCRL-62-1019 RADAR ECHO STATIC BEHAVIOR OF RADAR ECHOES FROM AIRCRAFT MGL PAPER-42 FIELD-ALIGNED IRREGULARITIES IN RADAR ECHOES FROM THE E-REGION AFCRL-62-351 RADAR PRECIPITATION ECHO AND SATELLITE CLOUD OBSERVATIONS OF MARITIME CYCLONE RADAR CLUTTER MAP FOR USE IN AIRCRAFT DETECTION RAL-TM-63-6 SYNOPTIC METEOROLOGY - RADAR COMPOSITES, ECHO CLASSIFICATION SCHEME FOR CYCLONES, PRECIPITATION, CLOUD VISIBILITY, TURBULENCE AND ICING

RAI

ANTENNA ANGLES - JUNE 1962 N63-14729 11-05	JPRS-16690 N63-11184 03-bs
METEOR RADAR OBSERVATIONS - ECHOES, AZIMUTH, AND ANTENNA ANGLES - JULY 1962 N63-14730 11-05	RADAR MEASUREMENTS IN THE SOLAR SYSTEM -
METEOR RADAR OBSERVATIONS - ECHOES, AZIMUTH, AND ANTENNA ANGLES - SEPT 1962 N63-14731 11-05	RE-EXAMINATION OF MINIMUM RANGE CRITERIA FOR RADAR
METEOR FLOW CHARACTERISTICS FRUM DESERVATION OF	CROSS SECTION MEASUREMENT CAL-GM-1580-G-101 N63-15945 13-08
RADAR ECHDES FROM METEUR TRAILS N63-15470 12-05	WIND SHEAR MEASUREMENT DIFFERENCES BY RADAR AND
RADAR-ECHO OBSERVATION OF QUANDRANTID METEOR SHOWER N63-15736 12-05	EROA-68 N63-21917 22-21
METEOR VISUAL TRACKING AND RADAR ECHOES	SYNCHRONIZATION OF FIELD INTENSITY MEASURING APPARATUS WITH TEST RADAR
N63-16631 14-05	RACC-RAU-TM-63-3 N63-22516 23-09
METEOR PATROL FACILITY IN CANADA USING RADAR ECHO TO COUNT METEORS N63-16633 14-05	IONOSPHERE - ELECTRON DENSITIES IN D-, E-, AND F- LAYERS RELATED TO RADIO COMMUNICATION - USE OF RADAR AND TOPSOUNDING SATELLITE MEASUREMENTS
FREQUENCY DISTRIBUTION OF RAIN SHOWERS BY RADAR ECHOES	N63-23442 24-12
NASA-CR-50172 N63-17139 15-21	RADAR OBSERVATION ANALYSES OF PACIFIC STORMS BASED ON CONTINUOUS
COMPARISON OF TRACKED RADAR ANGELS AND ATMOSPHERE RADIOSONDE PROFILES	RADAR RECORDS AND SHORT-INTERVAL SERIAL ASCENTS - VOL V, JUNE 5 TO 7, 1961
AFCRL-63-434 N63-18153 16-21	AFCRL-62-469 N63-10212 01-21
DATA PROCESSING OF RADAR ECHO DISTRIBUTIONS FOR WEATHER FORECASTING AND ANALYSIS	METFOR RADAR OBSERVATIONS, JUNE 1941 No3-11279 03-05
N63-19917 19-20	METEOR RADAR OBSERVATIONS, JULY 1961
BACKSCATTER, LUNAR SURFACE PROPERTIES, AND RELATED RADAR ECHO SUBJECTS - BIBLIOGRAPHY	N63-11280 03-05
NASA-CR-50856 N63-20249 20-08	RADAR DATA APPLIED TO FORECASTING OF TERMINAL WEATHER CONDITIONS
LUNAR EXPLORATION CONFERENCE - RADAR ECHO, RADAR DATA INTERPRETATION, PHOTOGRAPHIC PHOTOMETRY,	AFCRL-62-1019 N63-11710 04-21
LUNAR VOLCANICS, & MANNED EXPLORATION N63-21362 22-29	RADAR OBSERVATIONS - FIELD-ALIGNED IRREGULARITIES DURING MAGNETICALLY DISTURBED DAYS, MAY 6 8 8, 1960 - VAN ALLEN BELT
SURFACE PROPERTIES OF PERTURBED SPHERE DETERMINED BY RADAR RETURN SIGNALS	AFCRL-62-352 N63-11899 04-12
NASA-CR-51767 N63-22510 23-08	LUNAR SURFACES - RADAR AND PHOTOGRAPHIC DATA - SURFACE ROUGHNESS
RADAR ECHO DETECTION OF IONIZED NITRIC OXIDE IN E- AND F-REGIONS OF IONOSPHERE	PR-39 N63-12043 05-05
SEL-63-063 N63-22798 23-12	CORRELATION OF TIROS I CLOUD OBSERVATIONS WITH SYNOPTIC SCALE RADAR OBSERVATIONS OF PRECIPITATION
DUAL-CAVITY RUBY MASER USED IN MARS RADAR EXPERIMENT	AFCRL-63-223 N63-13560 08-21
NASA-CR-52020 N63-22877 23-08	RADAR OBSERVATION OF METEORS - DATA ON HOURLY RATE ECHC DURATION AND DUTY CYCLE, SEPT 1961
EFFECT OF DISTURBANCES ON MEASUREMENT OF DOPPLER FREQUENCY OF SINGLE RADAR ECHO PULSE	N63-14727 11-05
TIL/T-5376 N63-23073 24-08	RADAR GBSERVATION OF METEORS - DATA ON HOURLY RATE ECHO DURATION AND DUTY CYCLE, DEC 1961
RANGE DISTRIBUTION OF RADAR-ECHO RATE FROM SHOWER METEORS	N63-14728 11-05
AFCRL-63-733 N63-23120 24-05	METEOR RADAR OBSERVATIONS - ECHDES, AZINUTH, AND ANTENNA ANGLES - JUNE 1962 N63-14729 11-05
RADAR EQUIPMENT PROPORTIONAL NAVIGATION GUIDANCE SYSTEMS — RADAR ANTENNA POSITIONING EFFECTS ON SPEED OF RESPONSE	METEOR RADAR OBSERVATIONS - ECHOES, AZINUTH, AND ANTENNA ANGLES - JULY 1962 N63-14730 11-05
NACA-RM-A52E27 N63-12539 06-22	METEOR RADAR OBSERVATIONS - ECHOES, AZIMUTH, AND
FIELD SURVEY OF SELF-TUTORING COURSE FOR ON-SITE TRAINING IN SAGE AN/FST-2 MAINTENANCE MATRIX-62-11 N69-13164 07-08	ANTENNA ANGLES - SEPT 1962 N63-14731 11-05 CLIMATOLOGY - WEATHER RADAR OBSERVATIONS -
CAIN- RAMBUILL MOISE AND SYSTEM TESTS FOR	SCANNING ANTENNAS AFCRL-63-299 N63-16359 14-21
PERFORMANCE OF RADAR PARAMETRIC AMPLIFIER N63-13480 08-08	CLOUD COVER RESEARCH DATA - VISUAL OBSERVATIONS,
METEOROLOGICAL ASPECTS OF AIR TRAFFIC CONTROL - TECHNIQUES FOR USING RADAR EQUIPMENT TO LOCATE	RADAR RECORDS, PHOTOGRAPHS FROM WHOLE-SKY CAMERAS, U-2 AIRCRAFT AND TIROS SATELLITES AFCRL-63-400 N63-16454 14-21
THUNDERSTORMS FTD-TT-62-1679/162 N63-13586 08-21	METEORS AND RADAR OBSERVATIONS - RADIO WAVE SCATTERING N63-16628 14-05
ANALYSIS OF FILTERING SYSTEM CONSISTING OF SIGNAL AND FILTERS 10-09	SEVERE WEATHER PROJECT - OBSERVATIONS BY RADAR, RADIOSONDE, SFERICS, AIRCRAFT AND TIROS
TRANSPORTABLE SEARCH RADAR AND SIF EQUIPMENT FOR AIR TRAFFIC CONTROL COMMUNICATIONS FACILITY AFCRL-62-700 No.3-14579 10-08	SATELLITE - ROUGH RIDER PROJECT NSSP-14 N63-18277 17-21
RADAR INTERFEROMETRY	ELECTRICAL CHARACTERISTICS OF ATMOSPHERE AND SURFACE OF VENUS FROM RADAR OBSERVATION
RADAR INTERFERENCE AND PROTECTION AGAINST IT	JPL-TR-32-423 N63-21480 22-29

-03 DAR -08

21

09

12

21 95 15

1 M 2

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1

PARTABLES COMPRE

	SUPPLIED VERNIANTUM.
RADAR RECEPTION SPACECRAFT SENSORS FOR DETECTING RADIO AND RADAR SIGNALS - ANALYSIS OF REQUIREMENTS AIAA PAPER-63-348 20-08	RADAR SYSTEMS RADC-TOR-63-257 N63-18053 16-08 GRIDDED 100 KW L-BAND AMPLIFIER FOR PHASED-ARRAY
RADAR REFLECTION GROSSA MI SERVERS TRANSMERS THAT CAR CF IMAGE	RADAK SYSTEM W-J 63-434R19 N63-18362 17-09
VENUSIAN AND LUNAR RADAR DEPOLARIZATION EXPERIMENTS JPL-TR-32-245 M63-10428 01-05	PROCESS OF STOCHASTIC DELAY - EFFECT ON POWER SPECTRA - CORRELATION FUNCTIONS OF RADAR AND SONAR SYSTEMS N69-19107 18-08
FEASIBILITY OF SIMULATING RADAR ANALYSIS OF THE MOON AFCRL-62-1120 N63-12362 06-05	GEMINI RENDEZVOUS PULSED TRANSPONDER RADAR - INTERFEROMETER ANGLE AND RANGE MEASUREMENT AIAA PAPER 63-350 N63-20319 20-32
RADAR EXPLORATION OF VENUS - DERIVATION OF THE ASTRONOMICAL UNIT AND VENUS ROTATION REFLECTION JPL-TR-32-280 N63-13484 OB-08	RADAR FOR VELOCITY MEASUREMENT IN SPACECRAFT FOR LUNAR LANDING ATAA PAPER-63-351 N63-20493 20-08
RADAR REMOTING COMPARATIVE COST ANALYSIS OF MICROWAVE AND WIRELINE RADAR REMOTING TECHNIQUES FOR AIR TRAFFIC CONTROL N63-15814 13-01	INDICATOR DEVICES FOR RADAR STATIONS JPRS-21261 N63-22175 23-08 RADAR QUALITY CONTROL - CONTINUOUS MONITORING BY AIRCRAFT N63-23146 24-08
RADAR SCANNING ELECTRONIC SCANNING AS APPLIED TO PHASE ARRAY RADAR - ANTENNA SYSTEM RAL-TM-63-5 N63-15385 12-09	CARTESIAN VELOCITY ERROR ASSOCIATED WITH FPS-16 RADARS AT WOOMERA SAD-128 N63-29169 24-08
CLIMATOLOGY - WEATHER RADAR OBSERVATIONS - SCAMNING ANTENNAS AFCRL-63-299 N63-16359 14-21	RADAR TRACKING INFORMATION DISPLAY HODES FOR CONTINUOUS CONTROL OR TRACKING TASKS ANAL-TDR-62-93 N63-10184 01-14
EQUIPMENT FOR CONVERTING RADAR SCAN DATA TO TV DISPLAY FOR AIR TRAFFIC CONTROL N63-20737 21-08	RADAR TRACKING WITH RANDOM DISTURBANCE TAKEN INTO ACCOUNT FTD-TT-62-623/162 N63-10453 01-08
VOLUMETRIC FIXED APERTURE RADAR SCANNING ANTENNAS AFCRL-63-307 N63-22046 22-09	METEOR RADAR OBSERVATIONS, JUNE 1961
TACKING PERFORMANCE OF F-86D AIRCRAFT WITH RADAR FIRE-CONTROL SYSTEM NACA-RW-A57J01 N63-12503 06-04	METEOR RADAR OBSERVATIONS, JULY 1961 N63-11280 03-05
RADAR SYSTEM RADAR SYSTEM STUDY OF VENUS BY ELECTROMAGNETIC	A COHERENT PULSED RADAR VELOCITY TRACKING DEMONSTRATION N63-11423 03-08
RADIATION TECHNIQUE ESL-SR-157 HIGH POWER AND DELILAH PROJECTS - HIGH MICROWAVE	DEVELOPMENT OF SOUNDING ROCKETS IN JAPAN - RADAR AND OPTICAL TRACKING, MANAGEMENT, AERODYNAMICS, ROCKOON, AND ELECTRONIC EQUIPMENT NASA-TT-F-87
PONER LEVELS FOR ANTIMISSILE RADAR SYSTEMS CAL-UB-1309-P-108 N63-12760 06-08	LOW MOISE PARAMETRIC AMPLIFIER FOR RADAR TRACKING OF SOUNDING ROCKEY M63-13258 07-09
RADIO FREQUENCY ENERGY FIRINGS ON BRIDGEWIRE SQUIBS FOR MISSILE RADAR SYSTEMS RK-TR-63-1 07-26	RADAR CLUTTER HAP FOR USE IN AIRCRAFT DETECTION RAL-TH-63-4 09-08
GRIDDED 100 KW L-BAND AMPLIFIER FOR PHASED ARRAY RADAR SYSTEM N63-12970 07-09	DETAIL WIND DATA AS MEASURED BY THE FPS-16 RADAR SPHERICAL BALLOON TECHNIQUE - RADAR TRACKING
HONOLULU TERMINAL RADAR SERVICE AREA AND HAWAITAN ISLANDS DOMESTIC ENROUTE AREA — AIR TRAFFIC CONTROL FACILITIES AND SIMULATION	MASA-TN-D-1572 12-12 SPACE COMMUNICATIONS TECHNIQUES - OBSERVATION OF
GRIDDED 100 KW L-BAND AMPLIFIER FOR USE IN	SATELLITES BY RADAR TRACKING N63-15696 12-08
PHASED ARRAY RADAR SYSTEMS N-J-63-434R15 N63-14000 09-09	OPTIMUM SMOOTHING OF TRAJECTORY DATA WITH REFERENCE TO FPS 16 RADARS N63-17175 15-20
OPTIMUM CHARACTERISTICS OF SOME MOTION— COMPENSATION SYSTEMS - VOL. I, THEORY AND APPLICATION OF DOPPLER-INERTIAL SYSTEMS N63-14375 10-08	GROUND OPERATIONAL SUPPORT SYSTEM, RADAR TRACKING, TELENETRY AND COMMUNICATION NETWORK FOR APOLLO AND GENINI PROGRAMS 16-30
HICROWAVE GAS BREAKDOWN WITH EMPHASIS ON HANDSECOND PULSE BREAKDOWN - PLASMA CONDUCTIVITY EFFECT ON ELECTROMAGNETIC PROPAGATION, RADAR	COMPARISON OF TRACKED RADAR ANGELS AND ATMOSPHERE RADIOSCHOE PROFILES AFCRL-63-634 16-21
RAOC-TOR-62-616 N63-15095 11-24 100 KW L-BAND AMPLIFIER FOR PHASED ARRAY RADAR	BISTATIC RADAR TRACKING FOR DATA ACQUISITION FROM DEEP SPACE N63-20001 20-03
SYSTEMS - FOCUSING AND TRANSMISSION POWER H-J-63-434R16 13-09	ROCKET RANGE WITH LAUNCHER AND DOPPLER RADAR FOR NIKE-CAJUN RESEARCH ROCKETS NSRC-2 N63-20787 21-14
EVALUATION OF USE OF METAL SPHERES AS TARGETS FOR GUIDED MISSILE RADAR SYSTEMS RE-TR-62-6 M63-16440 14-08	GROUND RADAR TRACKING SUPPLEMENTATION OR BACK-UP OF ON-BOARD NAVIGATION AND GUIDANCE SYSTEMS OF
ANTENNA FOR SIDELOBE REDUCTION IN IDENTIFICATION	SPACECRAFT IN LUMAR ORBIT

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NASA-CR-50944	N63-21430	22-08	RADIANT HEATING	The second state
AZINUTH AND ELEVATION MEASURING SINGLE GROUND-BASED RADAR - EFFE	CAPABILITY ECT ON RADAR	OF	QUARTZ LAMP RADIANT HEAT BRAZ METAL HONEYCOMB SAMDWICH CONS	
CAPABILITY TO ESTIMATE VEHICLE TO NASA-CR-50943	M63-21431		RADIANT HEAT TRANSFER IN ABSO	RBING, EMITTING AND
MISSILE RANGE AN/FPS-16 RADAR PE TRACKING PROJECT MERCURY CAPSULE SELWS-E-101			ARL-63-3 MATERIALS FOR TRANSMISSION OF	AC 27909019843989
METEOR VELOCITY MEASUREMENTS BY MULTISTATION RADAR SYSTEM	USE OF		RADIANT HEATING AND MECHANICA TRANSDUCERS ASD-TOR-62-034	L LOADING TO
NASA-CR-51346	N63-21646	22-29	RADIANT HEAT SOURCE FOR SIMUL	D5/11-5A-18338
RADIAC CALIBRATOR THERMOCONDUCTIVITY AND EXPANSION CALCIUM AND ZIRCONIUM TITANATES PROTOTYPE RADIAC CALIBRATOR FOR	AND DEVELOPMENT OF SHIPBOARD USE		ENVIRONMENT NASA-TH-X-50221	N63-19263 18-1
		SE	EFFECT OF RADIANT HEAT COMPON IN VACUUM SUBLIMATION	DWINDWIA REGIS
RADIAC CALIBRATOR FOR SHIPBOARD DETECTORS			NASA-TT-F-178 RADIANT HEATING TECHNIQUE TO	THE RACKS SET SERVICES
MADIAL FLOW WAVES IN DRIFTING AND ACCELERATE	INC ELECTRON		OF ORDMANCE ITEMS TO FIRE NOLTR-63-174	N63-22240 23-1
STREAMS IN RADIAL FLOW IER SER. 60, ISSUE 459	N63-12735	06-23	REENTRY PHYSICS - CONVECTIVE OF HEAT SHIELD-PAYLOAD FRACTI	
PLANE ELECTROMAGNETIC WAVE SCATT			RADIATION	
GRADIENTS OF ELECTRON DENSITY-NO GASL-TR-317	DRMAL INCIDE N63-14608	NCE	SA ALPHA RADIATION SA ATMOSPHERIC RADIATION	SEANNTHE ANTENNAS
FLUID MECHANICS AND HEAT TRANSFE RADIALLY INWARD FLOW OVER A SHRO		NG DISK	SA BACKGROUND RADIATION SA BLACK BODY RADIATION SA CERENKOV RADIATION SA COSNIC RADIATION	State to tradite
ABLATION CHARACTERISTICS OF THIC SHELL CONSIDERING RADIAL HEAT FL PIBAL-670	K HALLED SP		SA ELECTROMAGNETIC RADIATION SA EXTRATERRESTRIAL RADIATION SA GALACTIC RADIATION SA GAMMA RADIATION	MICEL SET POZ
RADIAL COMPRESSIBLE FLOW BETWEEN SUBSONIC SPEEDS	PARALLEL D		SA INFRARED RADIATION SA INTERSTELLAR RADIATION SA IONIZING RADIATION	TRACKING VERTORIA
TURBULENT RADIAL FLOW BETWEEN PA HAVING BOTH SUPERSONIC AND SUBSO	DNIC FLOW RE	GIONS	SA LYMAN ALPHA RADIATION SA MICROMAVE RADIATION SA MONOCHROMATIC RADIATION SA NUCLEAR RADIATION	ASTER STEEN STUD
RADIANT ENERGY RADIATIVE TRANSFER THEORY AND PR RADIANT ENERGY SCATTERING AND DI FUNCTIONS OF CHAMDRASEKHAR	REDICTIONS OF	F AND Y	SA PLASMA RADIATION SA PULSED RADIATION SA SHORT WAVE RADIATION SA SKY MADIATION SA SOLAR RADIATION	DO DAN ASSUL HELD ?
RM-3376-JPL RADIATIVE LOSSES EVALUATED FOR A	The second second	09-20	SA SPACE RADIATION SA THERMAL RADIATION	a romanday england
IONS PRESENT IN INTERPLANETARY G RADII - SOLAR CORONA ENERGY BALA	AS FROM 4 T	0 215	SA ULTRAVIOLET RADIATION SA VISIBLE RADIATION SA X-RAY	ALCON FOR MISSING STATES
RADIANT ENERGY TRANSFER IN MULTI MIXTURES - ISOTHERMAL AND NONISO PARAMETERS			CF CATHODE RAY TUBE CF ELECTROMAGNETIC WAVE CF EMISSION CF IRRADIATION	BOHOLOCO VERTILAL
DIRECTIONAL ENISSIVITY AND REFLE ENERGY FROM SPECULAR, GRAY, ISOT NASA-TN-D-1874			PATH OF RAYS IN A SPECULAR OP FTO-TT-62-1218/162 RADIATION BY A UNIFORMLY ROTA	N63-10443 01-2
POWER TRANSMISSION BY THERMAL RA	TAUN SHORE	140 Yes		N63-10760 02-2
IGNITION OF CELLULOSE FUELS BY V OF RADIANT ENERGY - EFFECTS OF N USNROL-TR-660	ERY BRIEF P	ULSES OSTONS	POLARIZED DECIMETER RADIATION ACOUSTIC RADIATION FROM A BEA	N63-10961 02-0
RADIANT-ENERGY EMISSION OF DIFFU	SE CONTCAL		PLATE	N63-10962 02-2
AVERAGE SURFACE TEMPERATURE ON M	N63-20794 ARS ESTIMATI	SEA CASE	THERMAL RADIATION INCIDENT ON NASA-TH-D-1524	N63-11121 03-2
FROM RADIATIVE EQUILIBRIUM MASA-CR-51990	N63-22512	23-29	SPACE SCIENCE - EARTH, SUN, A	ND STARS - RADIATION N63-11138 03-2
RADIANT HEAT TRANSFER IN ABSORBE	NG, EMITTING N63-23484	24-13	BENDING-MAGNET AND QUADRUPOLE PARAXIAL RAYS ANL-6611	
ANGULAR DISTRIBUTION OF EMITTED RADIANT ENERGY FROM DIFFUSE GRAY GROOVES	ASYMMETRIC	ED	ATHOSPHERE - RADIOLOGY - RADI	GUIDED RESSELS AS
NASA-TN-0-1987	N63-23680	-94-22	MOLTANITATION IN TOURSTRANGE SHO	

rik. 3-17 NO: 1-13

R 6-13

9-13 FER

9-13 TY 1-13 * 1-02

10

ME.

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-24

-05 N 23

28

N 29

23

23

CHANGES IN PERIPHERAL BLOOD DURING RADIATION N63-12394 06-16	SURFACE TEMPERATURE ISSUE AND ADMINISTRAÇÃO AND ADMINISTRAÇÃO APPLICAÇÃO APORTO A PROPERTO A PROPER
INIZATION UPSTREAM OF STRONG SHOCK MAVE BY RADIATION FROM HOT NONEQULIBRIUM REGION DOWNSTREAM OF SHOCK	LOW ENERGY PROTONS AND ELECTRONS IN GEOMAGNETICALLY TRAPPED RADIATION N63-17112 15-12
CH-1C20	RADIATION-INDUCED POLYMERIZATION - TRANSPARENT
CASCOUS RADIATION CHARACTERISTICS OF BLUNT BODIES AT WIPERSONIC SPEEDS - PART II, FLOW FIFLD SOLUTION IN SHOCK CAP	MOISTUREPROOF PLASTIC COATINGS - POLYETHYLENE HALOGENATION RAI-303 Nos-17187 15-07
CARDE-TM-726/63 N63-13160 07-11	AL-IMAGNERIQ DESENBANCES - AURURAL SPECTROSCOPY
MOLECULAR STRUCTURE OF PROTACTINIUM 234 - 234	RADIATION DISCRIMINATORS - BIBLIOGRAPHY SB-62-34 N63-17640 16-15
ELECTRON SPECTRUM AND RADIATION N63-13944 09-23	ACOUSTIC RADIATION IN AN CCEAN WITH HEAT SOURCES
POSSIBLE CAUSALITY OF RADIATION OVERSHOOTS IN MAKE	AND THERMAL MIXING ZONES NML-1854 N63-17647 16-23
OF PROJECTILE BY DECREASING TEMPERATURE -	OPTINUM ORBITAL TRANSFER USING SOLAR RADIATION
AE62-0814 N63-13969 09-30	PRESSURE THRUSTING DEVICE
ACOUSTIC RADIATION EFFICIENCY OF GYPSUN	R63SD30 N63-17766 16-29
CONSTRUCTION BOARDS AND CONCRETE PANELS N63-14048 09-23	EMISSION AND ABSORPTION OF RADIATION FROM FULLY IONIZED PLASMA IN PRESENCE OF MAGNETIC FIELD ARL-63-62 NS3-17895 16-24
JACOBI POLYNOMIAL EXPANSION OF GENERALIZED HYPERGEOMETRIC FUNCTIONS OVER SEMI-INFINITE RAY N63-14261 10-20	EARTH REFLECTED SOLAR RADIATION UPON SPINNING FLAT PLATE ABOARD A SATELLITE NASA-TN-D-1842 N63-18131 16-06
PRECURSOR SIGNALS - PHOTOLONIZATION AND ELECTRON	- WHILE HEART CARRY SERVICES IN THE STREET SANGERS AND
DIFFUSION - SPECTROMETRIC DETERMINATION N63-14315 10-24	ATMOSPHERIC RADIO NOISE, LIGHTNING DISCHARGE RADIATION, LIGHT POLARIZATION AND VERY LOW FREQUENCY RADIATION NS3-18220 17-21
RADIATION, RECESSION AND TEMPERATURE OF PLASTIC	IONIZATION OF GASES BY CPYICAL MASER RADIATION
N63-14341 10-19	55-65-17-85554-644 668-N63-18288 1017-25
RADIATION DATA OF TIROS II - SYNOPTIC INTERPRETATION AND HEAT BALANCE DETERMINATION AGENL-63-247 No.3-14399 10-13	SATELLITE MEASUREMENT OF SPACE RADIATION NEAR EARTH AND IN COSMIC SPACE M63-18443 17-28
SCATTERING OF RADIATION OF ASYMMETRIC SOURCE BY CIRCULAR CYLINGER RC-365 N63-14584 10-20	HORN ANTENNA WITH SUPPRESSED SIDELOBES AND EQUAL SCAMETOTH - RADIATION CHARACTERISTICS OF DUAL-MCDE CONICAL HCRN NASA-CR-50625 N63-18485 17-03
NUCLEAR PHYSICS, REACTORS, CHEMICAL ENGINEERING,	FOG - RADIATION. ADVECTION AND AIR MASS FOG -
METALLURGY, RADIATION & ENGINEERING - PROGRESS	VERTICAL DISTRIBUTION, GROWTH RATE AND CONTROL
N63-14890 11-01	NASA-CR-50530 N63-18498 17-21
EMPIRICAL AND THEORETICAL STUDIES OF ATMOSPHERIC ENERGY SPECTRUM, SOUTHERN CIRCUMPOLAR VORTEX, TERRESTRIAL RADIATION No.3-14914 11-21	REFLEX ARC STABILITY MATT-196 N63-18743 17-24
STUDY OF TERRESTRIAL RADIATION MEASURED BY TIROS II METEOROLOGICAL SATELLITE - ATMOSPHERIC ENERGETICS No.3-14919 11-21	FLUX MEASUREMENT OF PRIMARY COSMIC RADIATION AT ENERGIES BELOW GEOMAGNETIC FIELD THRESHOLD NASA-CR-50562 NASA-18858 18-28
STUDY OF MOVEMENT OF LONG ATMOSPHERIC MAYES BY HEARS OF PHASE CHANGE OF ZONAL FOURIER HARMONICS -	ABSORPTION COEFFICIENT AND OPTICAL THICKNESS OF MCDIUMS FOR ENERGY AND HEAT TRANSFER BY RADIATION IN NUCLEAR ROCKET ENGINES 1 No9-19927 18-28
ATMOSPHERIC ENERGETICS M63-14920 11-21	TRANSITION RADIATION FOR CHARGED PARTICLE AT
STUDY OF ENERGY RADIATION IN OUTER VAN ALLEN ZONE FAOM EXPLORER VI SATELLITE DATA ACQUISITION DURING AUGUST AND SEPTEMBER 1959 NG3-15091 11-28	OBLIQUE INCIDENCE TO THIN CONDUCTING FILM SEPARATING TWO MEDIA OF DIFFERENT REFRACTIVE INDEX AFCRL-63-167 N63-19549 19-23
DYNAMIC NONLINEAR ELECTROMAGNETIC WAVE PROPAGATION AND HARMONIC RADIATION IN IGNOSPHERE AFCRL-63-446 N63-15741 12-24	TELEMETERING MONOCHROMATOR HEASUREMENTS OF SOLAR 304-A RADIATION AND ITS ATTENUATION IN UPPER ATMOSPHERE N63-19682 19-12
NEAR-EARTH CHARGED-PARTICLE BACKGROUNDS MEASURED WITH POLAR ORBITING SATELLITES	ALTITUDE OF NIGHT AIRGLOW RADIATIONS N63-19485 19-12
UCRL-6693 N63-16034 13-28 INSTRUMENTATION FOR OBSERVATIONS OF PLANETS IN FAR INFRARED - FERROELECTRIC BOLOMETERS AND	RADIATION FROM CHARGED PARTICLE IN STRAIGHT MUTION THROUGH PERIODIC SET OF DIELECTRIC PLATES AFCRL-63-168 N69-19711 19-23
RADIATION PYROMETERS N63-16245 13-05 RADIATION BRIGHTNESS TEMPERATURE OF VENUS	MEASUREMENT OF ATMOSPHERIC ABSORPTION OF LASER 1781042 RADIATION 189-25 AL
ATMOSPHERE HRL-5937 H63-16277 13-29	NONLINEAR ELECTROMAGNETIC WAVE PROPAGATION AND THE AZ
COHERENT ELECTROMAGNETIC RADIATION FROM ELECTRON BEAM STIMULATED PLASMA	MARMONIC RADIATION IN MAGNETOLONIC MEGIA AFCRL-63-695 N63-20678 20-24
NADC-TDR-63-135 NAME AND N63-16436 14-24	RADIATION LOSS FROM PARTLY-IONIZED, COLLISION-
INFRARED ASTRONOMY OF MOON - LUNAR RAY CRATERS AND	AERONAUTICAL ENG. REPT658 N63-20709 21-24

ATTITUDE CONTROL OF INTERPLANET	ARY SPACECRA	FT BY	VAN ALLEN ZONE - OUTER-ZONE ELECTRONS CR-51 N63-11303	03-20
AIAA PAPER-63-327	N63-20756	21-32	MAGNETIC FIELD OF RADIATION BELT AND DISTORT	ON OF
RADIANT-ENERGY EMISSION OF DIFF CAVITIES	N63-20794		GEOMAGNETIC FIELD N63-11951 VAN ALLEN BELTS - MOTION AND ORIGIN OF PARTIC	Y Applicat
TRANSIENT RADIATION SIMULATION D2-9878-4			IN EARTH RADIATION BELTS N63-12653	06-28
VLF RADIATION BURSTS DURING AUR MAGNETIC DISTURBANCES - AURORAL	ORAE AND GEO SPECTROSCOP	- 01/144 - 01/144	CHARGED PARTICLE 3-ELECTRODE TRAP EXPERIMENTS 2ND RADIATION BELT AND OUTERMOST BELT OF CHAR PARTICLES N63-14537	10-28
TRANSPLANTATION OF HEMOPOIETIC	TISSUE - ENB	RYONIC	EARTH RADIATION BELTS - RADIATION HAZARD N63-15116 PROTON BOMBARDMENT ON TRANSISTOR CIRCUITS AT	11-28
JUPITER RADIATION CONDITIONS - ROTATION PERIOD, POLARIZATION ANOMALIES, POMER AND ENERGY IN DECAMETER STORMS N63-21063 21-28			AND 440-HEV IN RADIATION BELT	11-25
			LACK OF INFLUENCE OF CAPETOWN GRAVITY ANDMALY	
CONTRIBUTION OF THERMAL DIFFUSE INTEGRATED BRAGG REFLECTIONS FR AMRA-TR-63-03	DH PERFECT CI	RYSTALS	MAGNETIC FIELD OF RADIATION BELTS - TRAPPED PARTICLES	11991
POLARIZATION OF SYNCHROTRON RAD		HE	NASA-1H-U-1762 N63-17141	15-12
QUASI-TRANSVERSE PROPAGATION REMASA-TH-X-50725	GION N63-22172	23-28	DEFORMATION OF EARTH MAGNETIC FIELD IN RADIAT BELT REGIONS FROM RING CURRENTS AND SOLAR PLA FLOW	
RESIDUAL RADIDACTIVITY FOLLOWING	CYCLOTRON S	SHUT-	NASA-CR-50061 N63-18406	17-12
USNRDL-TR-667	WHILE LOAD A		SOLAR HIGH ENERGY PARTICLES IN RADIATION BELT N63-19487	19-28
ACOUSTIC RADIATION OF CYLINDRIC ELASTIC PLATE EXCITED BY SHIP P DAVIDSON LAB. REPT888		LD	AMBIENT RADIATION AND TRAPPED PARTICLES IN SP AEROSPACE MEDICINE N63-20570	ACE - 20-28
STRUCTURAL DESIGN OF ROCKETS - (NUCLEAR RADIATION, COSMIC RAYS, SOLAR FLARES, RADIATION BELT EFFECTS IN SPACE N63-22691	3 25 90
HEAT TRANSFER TO ARC CHAMBER LIG AND RADIATION IN HYPERSONIC WING			HIGH-ENERGY ELECTRONS IN RADIATION BELTS NASA-RP-112 NASA-RP-112	23-12
ADENINE FORMATION FROM METHANE, BY ELECTRON IRRADIATION	AMMONIA, & N N63-22606		RADIATION COOLING PLASMA-ARC SPRAYED RADIATION-COOLED THRUST CH OF MOLYBDENUM POWDER N63-10965	
CYLINDRICAL PLASMA LONG-WAVELENG OSCILLATIONS DI-82-0255	TH CHARGE N63-22837	23-24	RADIATION COOLING AERODYNAHICALLY HEATED SURF	7.102498
SINULATION OF EARTHS ALBEDO AND RADIATION ON			ENDURANCE TESTING OF 30-KW ARC JET ENGINE HAVING	
SATELLITE VL-2244-19-0	N63-22983	23-29	RADIATION COOLING AIAA PAPER-63-274 N63-17807	16-27
SPECTRAL ABSORPTION OF DIRECT AN	D DIFFUSE N63-23336	24-12	EFFECTS OF REGENERATIVE AND RADIATION COOLING THRUSTOR PERFORMANCE FOR FROZEN FLOW	1963
GEOPHYSICS - RADIO ASTRONOMY, RA			NASA-TN-D-1738 N63-23676	
STUDIES AND RADIOACTIVE DATING	N63-23540	24-12	HIGH PULSE RATE COUNTING CIRCUITRY - TUNNEL D FAST DISCRIMINATOR SWITCH	
ATOMIC BEAM APPARATUS WITH VAN O	E GRAAFF GEN	ERATOR	100-16823 N63-13628	08-09
TO PRODUCE POLARIZED ION RADIATI INTERACTION WITH ION SOURCE	ON - EXCITAT N63-23542		QUANTUM EFFICIENCY RADIATION DETECTORS AND CO	UNTER 12-20
BIOLOGICAL ACTION OF RADIOFREQUE ELECTROMAGNETIC FIELDS	NCY MAGNETIC N63-23563		TYPES OF SPARK COUNTERS APPLICABLE TO NEUTRON SPECTROMETRY NYO-10261 N63-16378	
SYNCHROTRON EMISSION AS SOURCE OF FREQUENCY AURORAL NOISE	F VERY HIGH	unitativ Lindbulk	NYO-10261 N63-16378	14350
SEL-62-149/SUP/	M63-23659	24-28	EFFECTS OF LONG TERM VACUUM ON COMMERCIAL SIL RADIATION DETECTORS	
STABLE, FINITE DIFFERENCE APPROX RADIATION DIFFUSION EQUATIONS	IMATIONS IN	urayola		01-15
LAMS-2960 1107-684	N63-23673	24-23	RADIATION SAFETY AND CONTROL - DOSES, DETECTI SHIELDING	ON.
RADIATION BELT SA ARTIFICIAL RADIATION BELT	RMIE THAT THE	MEADURE	T10-7027 N63-11535	03-16
SA INNER RADIATION BELT SA OUTER RADIATION BELT	A (45 C C C C C C C C C C C C C C C C C C C		NUCLEAR REACTOR - RADIATION DETECTION - RADIA SHIELDING	682386
SA VAN ALLEN BELT	MOITA DAZ	MARRICAL E	AL ATREASONAL CAPTY CARTARY SERVICES OF THE SERVICES	04-23
CF TRAPPED RADIATION	ION BELT	1711717	RADIO-FREQUENCY INTERFERENCE IN RADIAG-TELEME SYSTEMS - QUALITATIVE STUDY	145088
NASA-TN-0-1447	M63-10369	01-26	USMRDL-TR-544 M63-12003	05-08
	864-33610			

3-28 N OF 5-12 ES 5-28

IN ED 3-28

-28

-25 N -15

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-23 -12

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16 i 23

18

SOLAR RADIATION MONITORING IAS PAPER-63-2 N63-12880 07-28	FOUR-FLUX IRRADIATION OF SOLID FILM LUBRICANTS AT AMBIENT TEMPERATURE FGT-1880 N63-14735 11-17
GAMMA RADIATION DETECTION AND MEASUREMENT WITH EMPHASIS ON SPACE AND ASTRONAUTICAL APPLICATIONS — ABSTRACTS JPL-AI/LS-205 N63-13704 08-15	PROTECTION AGAINST RADIATION HAZARDS IN SPACE - BOOK II, DOSE HEASUREMENT AND SHIELD DESIGN FOR PRIMARY AND SECONDARY EMISSION TIO-7052, BK. 2 N69-15138 11-28
THERMOCONDUCTIVITY AND EXPANSION OF BARIUM-LEAD- CALCIUM AND ZIRCONIUM TITANATES AND DEVELOPMENT OF PROTOTYPE RADIAC CALIBRATOR FOR SHIPBOARD USE M63-14264 10-23	SECONDARY-EMISSION DOSE CONTRIBUTIONS INDUCED BY SOLAR PROTON RADIATION - SPACECRAFT SMIELDING NO3-15142 11-16
RADIAC CALIBRATOR FOR SHIPBOARD GAMMA RADIATION DETECTORS N63-14265 10-15	RADIATION DOSE IN TISSUE FROM HIGH-ENERGY PROTONS N63-15144 11-16
REACTOR INSTRUMENTATION AND CONTROLS - RADIATION MONITORING, NUCLEAR SPECTROSCOPY, DATA PROCESSING,	SPACE PROTON DOSES AT POINTS IN HUMAN BODY - SPACECRAFT SHIELDING N63-15145 11-16
HIGH-VOLTAGE ACCELERATOR SUPPORT EQUIPMENT ORNL-3191 N63-14801 11-01	RADIATION SHIELDING FOR SPACECRAFT - APOLLO PROJECT M63-15146 11-32
QUANTUM EFFICIENCY RADIATION DETECTORS AND COUNTER MODELS N63-15386 12-20	ESTIMATION OF SPACE RADIATION EXPOSURE DURING
RADIATION DETECTOR USING GEIGER AND SCINTILLATION COUNTER AND CESIUM-ANTIMONY PHOTODETECTOR N63-15489 12-15	RADIATION DOSE FROM ELECTRONS AND BREMSSTRAHLUNG
SEMICONDUCTOR RADIATION DETECTORS FOR FAST NEUTRON	IN VAN ALLEN BELT - SPACECRAFT SHIELDING N63-15153 11-32
ASD-TDR-62-838 N63-16412 14-25 SEMICONDUCTOR DETECTOR PULSE HEIGHT RESPONSE TO	NEUTRON TISSUE DOSE AT LONG RANGE FROM ELEVATED, UNSHIELDED, FISSION REACTOR UCRL-10559 N63-16035 13-16
PROTON RADIATION - ENERGY ABSORPTION SAM-TOR-63-21 N63-17435 15-15 SOURCE & DETECTOR OF RADIATION IN 1500-50 AU	ATHOSPHERIC CONTAMINATION AND RADIATION DOSE FROM MUCLEAR EXPLOSIONS UP TO APRIL 1962
WAVELENGTH RANGE FOR STUDY OF RADIATION EFFECTS ON MATERIALS IN VACUUM ULTRAVIOLET WADD-TR-60-371 N63-19325 18-24	AEET/AM/27 N63-16040 13-16 EMERGY DISSIPATION IN TISSUE FOR PROTON RADIATION IN SPACE - COMPARATIVE ANALYSIS OF LET SPECTRA OF
CADMIUM SULFIDE RADIATION DETECTOR FOR SATELLITES N63-20466 20-32	FLARE PRODUCED AND FISSION NEUTRON RECOIL PROTONS NASA-CR-50044 NO-18679 14-24
PHOTON COUNTERS FOR THE ULTRAVIOLET AND VACUUM ULTRAVIOLET RADIATION SPECTRUM	RADIATION PROTECTION - EFFECT OF CHEMICAL COMPOUNDS ON MICE EXPOSED TO LETHAL RADIATION DOSE N63-17040 15-16
M63-20860 21-23 HIGH ENERGY RADIATION - PROPERTIES, DETECTORS, RADIATION CHRISTRY, UNITS OF MEASUREMENT, & EFFECTS ON MATERIALS	RADIATION PROTECTION - PHARMACOLOGY AND TOXICOLOGY IN PROTECTION FROM RADIATION DAMAGE - CYANIDE EFFECT ON LETHAL RADIATION DOSE IN MICE N63-17041 15-16
BNL-T48/T-274/ N63-20926 21-23 DETERMINATION OF EXPOSURE BY RECORDINGS OF WRIST	EFFECT OF GAMMA OR FAST NEUTRON RADIATION DOSES ON ANIMAL LIFESPAN - CHEMICAL COMPOUND PROTECTION IN
ARDIATION FILM BADGES - RADIATION DETECTOR ANL-6765 N63-21390 22-16	PROTON IRRADIATED MICE M63-17044 15-16
SEMICONDUCTOR RADIATION DETECTORS APPLIED TO RADIOBIOLOGY SAM-TDR-63-25 N63-22077 22-16	EFFECT OF SILVER HALIDE CONTENT IN FILM EMULSION ON RADIATION DOSINETER RESPONSE TO STRONTIUM-90/ YTTRIUM-90 BETA RADIATIONS - RADIOPHYSICS N63-17309 15-23
TRANSMISSIVITY OF CARBON PARTICLE CLOUDS - SPECTRAL TRANSMISSIVITY & TOTAL TRANSMISSIVITY DETERMINED BY TOTAL RADIATION DETECTOR	CHROMOSOME ABERRATION IN X-RAY IRRADIATED HICE - HIGH AND LOW DOSE RATE USNRDL-TR-644 N63-17613 16-16
N63-22313 23-27 AUTOMATIC LAUNDRY MONITORING SYSTEM FOR DETECTION OF ALPHA AND BETA CONTANINATION IN LABORATORY	INTEGRAL NEUTRON FLUXES - GAMMA AND NEUTRON RADIATION DOSES OM KIMI B-4A REACTOR LA-2895 M69-18112 16-23
CLOTHING HN-76351, REV. N63-22655 23-16	RADIATION PROGRAM SUMMARIES - DOSIMETRY, MALOGEN
DISTRICT BAGGE ORIENTATION EXPERIMENT	COMPOUND, POLYMERS, MONOMERS, GAMMA RADIATION, AND MEUTRON TRANSMUTATION BNL-790/C-37/ N63-18295 17-07
N63-10290 01-15	DEPTH-DOSE RATE OF NEUTRON IRRADIATION OF HUMAN BODY - MATHEMATICAL MODELS
SHIELDING TID-7027 N63-11535 03-16	UCRL-10267 H69-18348 17-16 GANNA DOSE REDUCTION CAUSED BY SHADOW SHIELDING
EXTENDING GAMMA DOSAGE RANGE MEASURING CAPABILITY OF FRICKE DOSIMETER	STRUCTURES LAMS-2904 M63-16876 18-23
BNL-763/T-284/ N63-12336 05-15 ELECTRONIC NETER FOR RADIATION DOSES RT/EL/62/11 N63-12448 06-15	ANALYTICAL METHOD FOR DOSE NATE DETERMINATION IN ABSORNER SYSTEMS EXPOSED TO SPACE RADIATION
IN-AIR RADIATION MEASUREMENTS IN VICTNITY OF TOWER	N63-19490 19-28 ENERGY DOSAGE IN LUCITE PHANTONS FAON SECONDARY
SHIELDING REACTOR II URML-3288 N63-14663 10-23	EMISSION OF PROTON IRRADIATED TARGETS ORML-3457 A STORAGE STORAGETS NG - NG3-19520 A 219-09

MARCHICAN MARCH

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HAZ/ HAN HAZ/ AND

DENSITY ARGON PLASHA STREAM

RESISTANT	ERATURE MATERIA	ALS PROGRAM - OXII	CTS
GEMP-17A	- 1000 ONN 140184	N63-101	03 01-18
EFFECT OF		MENT ON PHOTOVOLT	
SOLAR CEL P-N JUNCT		RADIATION DAMAGE	
	-2567-62	N63-102	
	-771/16264	ION ON PLANT ACTIV	
EFFECTS	BENEFI DE STED	ABILITY AND RADIA	111111111111111111111111111111111111111
	1361, PT. 1	N63-105	
TID-3909/	DIATION - A BIE SUPPL. 1/	N63-106	05 02-16
MAGNETIC	RESONANCE, NEUT	R REACTIONS, SPEC	ND
DIFFRACTI	DN, RADIATION E	DAMAGE - SYMPOSIUM N63-1076	
RADIATION BISMUTH T		RMOELECTRIC GENER	RATORS -
USNRDL-TR-		N63-1090	09 02-23
SYMPOSIUM		MENT ON MATERIALS N63-1091	S - 12 02-01
EFFECTS OF	F HIGH VACUUM A	NO RADIATION ON 1	
FLUOROCARI ENVIRONMEN	BON PLASTICS UN NTAL CONDITIONS	DER INFLUENCE OF	
RADIATION	EFFECTS IN GAL	LIUM ARSENIDE N63-1092	27 02-23
SEGMENTS I			RADIATED
		N63-1100	02 03-16
RADIATION GEMP-18A	EFFECTS IN BER		11 03-18
DIFFUSION	IN SILICON - H	ICROCALORIMETER E	DESIGN -
	BILITY IN IRRAD	IATED GERMANIUM	54 03-22
RADIATION AND SHIELD		ECTION, BIOLOGICA	AL EFFECTS
JPRS-1699		N63-1154	43 03-16
GENETICS -		DIATION ON HEREDI N63-1172	
PRTR REACT		PRESSURE TUBES O	
EFFECTS HW-74731,	PT. 11	N63-1180	05 04-23
HEALTH RAD		RADIATION EFFECTS	
ANL-6637		N63-1181	15 04-07
SOVIET RAD AEC-TR-542		ESEARCH REVIEW N63-1182	22 04-16
NEUTRON-RI	STABILITY OF O	RGANIC REACTOR CO PHENYLS IRRADIATE THE SUSIE REACTO	OR
T10-16999	MODANE VA DIRE		
EFFECT OF SICKNESS I JPRS-17170	IN MICE	RODRGANISHS ON RA N63-1184	
	TRACTED EXPOSU	E AND IRREPARABIL	MIZING
UR-621	MOUN SMOTKLAS	N63-1184	5 04-16

RADIATIVE DECAY OF HETASTABLE ARGON ATOMS IN LOW-

AEDC-TDR-63-5	N63-11973 05-24
ELECTRON MICROSCOPY IN OBSERVA	TIONS OF RADIATION
DAMAGE MRL-126	N63-12094 05-23
THERMAL AND ELECTRIC BURNS, FI	IRST AID AND
TREATMENT - FROSTBITE JPRS-17274	N63-12133 05-16
RADIATION EFFECTS ON ANIMAL TI RADIOPROTECTIVE DRUG STUDIES	SSUES AND LIFESPAN, N63-12251 05-16
RADIATION DAMAGE IN GRAPHITE - BNL-745/T-270/	NUCLEAR REACTIONS N63-12334 05-19
RELAY PROJECT - COMMUNICATIONS RADIATION DAMAGE	SATELLITE - N63-12361 06-32
RADIATION DAMAGE IN GRAPHITE 8 ELECTRONS - LENGTH, LATTICE SP RESISTIVITY CHANGES HM-75428	ACING AND
THERMOCONDUCTIVITY OF IRRADIAT	DISSIBLE BUSTALDAR 7
SINTERED & NONSINTERED URANIUM CRYSTALLINE STRUCTURE HW-69945	OXIDE RELATED TO
HIGH TEMPERATURE REACTOR MATER	SHOTSWANISHO
RUPTURE TESTS - RADIATION EFFE GEMP-19A	
HEASUREMENTS OF BIOLOGICAL AND	RADIATION EFFECTS
FROM HIGH ENERGY ACCELERATORS	N63-12565 06-23
ANALYTICAL CHEMISTRY - ELECTRO	2 DHAR HIGHS HAVAN
DAMAGE, SPECTROMETRY, INSTRUME ORNL-3397	NTATION N63-12657 06-07
HIGH TEMPERATURE IRRADIATION T	TEST OF URANIUM
DIOXIDE CERNET FUELS BMI-1608	N63-12687 06-26
EFFECTS OF NEUTRON IRRADIATION TEMPERATURES ON 2 TYPE 347 STA BMI-1609	
RADIATION EFFECT IN POLYMERS A POLYMERIZATION BY ELECTRON PAR BHI-1610	IND GRAFT RAMAGNETIC RESONANCE N63-12999 07-19
RADIATION EFFECTS ON PLATE-TYP REACTOR FUEL ELEMENT WAPD-TM-332	PE URANIUM OXIDE N63-13041 07-26
RADIOSENSITIVITY OF BIOELECTRI	DICE-BOT SCORDS) MSZ ING
STOMACH AND CAECUM USNRDL-TR-611	N63-13079 07-16
BIOLOGICAL EFFECTS OF X-RAYS O	
HEMATOLOGY OF DOMESTIC ANIMALS USNRDL-TR-606	N63-13206 07-16
REACTOR RED FOR CIVILIAN APPLI MATERIALS, RADIOISOTOPES, COAT EFFECTS	TINGS, AND RADIATION
BMI-1607/DEL./	N63-13373 08-01
RADIATION EFFECT ON DIELECTRIC EXPANSION PROPERTIES OF HIGH F TID-16273	OLYMERS N63-13378 08-23
CORROSION, METALLURGY, AND RAD MATERIALS FOR NUCLEAR FUEL CLA	DIATION EFFECTS OF
MATERIALS FOR NUCLEAR FUEL CLA GEAP-4060	N63-13498 08-18
RADIATION EFFECT ON SEMICONDUC PROTON PARTICLE ENERGY	TOR DEVICES DUE TO N63-13533 08-23
RADIATION EFFECT ON SEMICONDUC RESULTING FROM NEUTRON AND GAM	TOR DEVICES HA PARTICLE ENERGY N63-13534 08-23
GRAPHITE USE IN AIR-COOLED NUC PROBLEMS OF OXIDATION, RADIATI STORAGE	

-23

-10

-39

-11

١.

-23

-33

-23

-07

25

18

26

18

61

23

18

23

23

HAZARDS OF RADIATION EXPOSURE ON HUMAN BEHAVIOR

ML-758/T-281/ N63-13553 08-19 NASA PROGRAM FOR SPACE RADIATION EFFECT LABORATORY TO STUDY SPACE ENVIRONMENT FOR SPACE SYSTEM ENGINEERING
N63-15165 11-29 SOLUM DEPENDENCE OF BIOELECTRIC OUTPUTS IN RAT STUMACH - RADIATION DAMAGE (SWEDL-TR-608 N63-15165 11-29 170 72 9 N63-13573 08-16 COMBINED EFFECTS OF RADIATION AND VACUUM, AND OF RADIATION AND CRYOGENIC TEMPERATURE ON ENGINEERING MATERIALS MYSICS - DIELECTRICS OF MICA AND EFFECT OF GAMMA FTD-TT-62-1474/16264 MATHEMATICAL ANALYSIS OF NUCLEAR RADIATION.
NEUTRON DAMAGE TO TRANSISTORS
TR-975, SUP. 1 N63-15513 SEFECT OF GAMMA RADIATION ON DIELECTRIC LOSSES IN N63-13622 08-23 12-09 HIGH TEMPERATURE ELECTRON IRRADIATION TESTING OF MOITIVE FOR REDUCTION OF RADIATION DAMAGE TO TEMPHRYL USED AS ORGANIC COOLANTS - SANTOMAX OMP 100-16839 08-0 EFFECT OF RADIATION AND NITRIC ACID-NITRATE SALT SOLUTION ON PLASTIC AND OTHER NONMETALLIC 100-14598 NA3-15540 12-18 ABSORBER BURNUP EXPERIMENT — CHANGE OF ABSORPTION CROSS SECTION OF REACTOR CONTROL ROD MATERIALS DUE TO TRANSMUTATION B NEUTRON CAPTURE HIGH TEMPERATURE REACTOR HATERIALS FABRICATION AND EFFECT OF RADIATION ON HIGH TEMPERATURE ALLOYS GEMP-21A N63-15755 12-18 RADIATION EFFECTS ON HIGH TEMPERATURE REACTOR COMPONENT MATERIALS - FUEL MATERIALS - IRRADIATION OF FUEL ELEMENT GENO-175 PRESSURE MEASUREMENT IN ULTRA-HIGH VACUUM - EFFECTS OF ADSORPTION, DUTGASSING, STREAMING AND MOTATION MEDC-TOR-63-49 09-23 N63-13796 N63-15756 EFFECT OF NUCLEAR RADIATION ON TRANSDUCERS AND ESTIMATION OF VALUES OF RADIATION THRESHOLDS N63-15866 13-15 REACTOR NETALLURGY RESEARCH - IRRADIATION DAMAGE, MATERIALS DEVELOPMENT FOR PLUTONIUM RECYCLE TEST REACTOR & HANFORD PRODUCTION REACTOR /N/ W-76228 EFFECT OF GAMMA IRRADIATION ON ELECTRICAL
PROPERTIES OF SEMICONDUCTING OXIDE FILMS
FTD-TT-62-414/144 N63-15904 13-25 MEALING STUDIES ON IRRADIATED TYPE 347 STAINLESS STEEL FROM ENGINEERING TEST REACTOR PRESSURE TUBE CHARGE-CONTROL EQUIVALENT CIRCUIT FOR PREDICTING TRANSIENT RADIATION EFFECTS IN TRANSISTORS THERNOLUMINESCENT SPECTRA OF SODIUM CHLORIDE AND HOROXIDE-FREE SODIUM CHLORIDE IRRADIATED WITH 46-MEY ALPHA PARTICLES N63-16032 13-09 RADIATION EFFECTS ON SPACECRAFT ELECTRONICS SYSTEMS, COMPONENTS AND MATERIALS - BIBLIOGRAPHY SB-62-46 N63-16526 14-MSA-TH-D-1662 N63-14205 09-23 OPTICAL AND INFRARED PROPERTIES OF METALS -OPTICAL PROPERTIES OF SATELLITES
NASA-TN-D-1523 HIGH TEMPERATURE MATERIAL - RADIATION EFFECTS GEMP-22A N63-16596 N63-14272 10-23 NUCLEAR REACTOR FOR ELECTRIC PROPULSION MEASURED EFFECTS OF VARIOUS COMBINATIONS OF NUCLEAR RADIATION, VACUUM, AND CRYOTEMPERATURES ON COMPONENT PARTS OF NUCLEAR-POWERED SPACECRAFT APPLICATION JPL-TR-32-385 N63-14413 10-27 TRANSIENT RADIATION EFFECTS ON ELECTRONIC COMPONENTS AND SEMICONDUCTOR DEVICES — GAMMA RAYS AND NEUTRONS EFFECTS OF DIFFERENT TYPES AND INTENSITIES OF RADIATION ON HUMAN PHYSIOLOGY AND BEHAVIOR FRL-TN-90 N63-16929 14-16 N63-14566 10-09 GTOR RESPONSE IN MOTHS EXPOSED TO LOW-INTENSITY RADIATION EFFECT AND RADIATION PROTECTION IN RATS AND MICE N63-17036 15-16 USNEDI -TR-622 N63-14570 10-16 EFFECT OF CHENICAL COMPOUNDS ON RADIATION-INDUCED CHANGES IN ENZYME ACTIVITIES IN CERTAIN RAT FOUR-FLUX IRRADIATION OF SOLID FILM LUBRICANTS AT MBIENT TEMPERATURE N63-17038 : 15-16 N63-14735 11-17 RADIATION PROTECTION - RADIATION EFFECT ON REDUCTASE ACTIVITY IN RATS N63-17039 EFFECTS OF RADIATION EXPOSURE ON HUMAN PERFORMANCE N63-14789 11-16 N63-17039 15-16 RADIATION PROTECTION - PHARMACOLOGY AND TOXICOLOGY IN PROTECTION FROM RADIATION DAMAGE - CYANIDE EFFECT ON LETHAL RADIATION DOSE IN MICE MENTAL LESIONS IN RATS DUE TO X-RAYS & NEUTRONS -RADIATION EFFECT ON TEETH USARDL-TR-620 M63-14824 11-16 CHRONIC EXPOSURE OF DOGS TO MICROWAVE RADIATION OF 24,000 MEGACYCLES AND POWER DENSITY OF 20 MM/CM2 RADC-TOR-62-604 N63-14849 11-16 EFFECT OF GAMMA OR FAST NEUTRON RADIATION DOSES ON ANIMAL LIFESPAN - CHEMICAL COMPOUND PROTECTION | PROTON IRRADIATED MICE N63-17044 15 MIATION AND HEAT EFFECTS ON SOLID PROPELLANT GAMMA AND FAST NEUTRON RADIATION EFFECTS -PATHOLOGY IN MICE GIVEN CHEMICAL COMPOUNDS FOR RADIATION PROTECTION PRIOR TO PROTON IRRADIATION N63-17045 15 DECOMPOSITION N63-14852 11-26 INVESTIGATION OF COMBINED EFFECTS OF RADIATION AND VACUUM ON STRUCTURAL MATERIALS FOR NUCLEAR SPACE-CRAFT COMPONENTS - MATERIALS SCIENCE GARMA AND FAST MEUTRON RADIATION - TOXICITY OF RARE EARTH COMPOUNDS AND EFFECT ON MORTALITY FROM RADIATION EXPOSURE - RADIATION PROTECTION N63-17046 15-16 N63-15057 11-19 MAZARDOUS LATE EFFECTS OF RADIATION EXPOSURE IN M63-15131 11-16 MICROELECTRONICS RED AT MRL - TUNNEL DIODE FABRICATION, THIN FILMS, P-M JUNCTIONS, AND RADIATION EFFECTS M69-17358 15-09

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RADE

MICROELECTRONICS - EFFECTS OF NUCLEAR RADIATION ON ELECTRONIC EQUIPMENT N63-17377 15-23	LEUKEHIA N63-18960 18-16
EFFECTS OF RADIUM RADIATION EXPOSURE ON HUMAN BODY	IONIZING RAYS ON BONE MARROW - RADIATION EFFECT N63-18962 18-16
AND 8LDDD SAM-TDR-63-1 N63-17434 15-16	ELECTRON MICROSCOPIC STUDIES ON BONE MARROW CELLS
MECHANISM OF RADIATION-INDUCED GELATION IN MONOMER-POLYMER MIXTURES OF PLASTIC MATERIALS RAI-320 N63-17546 16-07	OF IRRADIATED RATS N63-18969 18-16 CHRONIC LEUKEMIA COMPLICATED BY HEMOLYSIS AND DEFIBRINATION SYNDROMES AFTER RADIATION TREATMENT
HIGH TEMPERATURE REACTOR MATERIAL - STRESS-RUPTURE	N63-18970 18-16
MOLYBDENUM, TANTALUM, TUNGSTEN - RADIATION EFFECTS GEMP-23A 16-33	EFFECT OF TRANSIENT NUCLEAR RADIATION ON CABLES USAERADL-TR-2292 N63-18999 10-91
PROTON AND ALPHA PARTICLE RADIATION DAMAGE IN EXPLOSIVES - RANGE AND ENERGY RELATIONSHIP PA-TR-3070 N63-17628 16-23	TORY II-C REACTOR - CALIBRATION OF PRESSURE TRANSDUCERS IN RADIATION ENVIRONMENTS TN-29 N63-19004 18-15
REVIEW OF RADIATION PNEUMONITIS IN MEDICAL LITERATURE - LUNG RADIOPATHOLOGY NRU-110 N63-17653 16-16	IN-PILE RADIATION CORROSION EXPERIMENTS WITH ZIRCONIUM, TITANIUM, AND STEEL ALLOYS IN URANYL SULFATE SOLUTIONS AT 280-DEG
RADIATION EFFECTS ON INSULATORS - POSITRON	ORNL-3099 N63-19077 18-18
ANNIHILATION IN SOLIDS - IONIZATION OF ANTHRACENE CRYSTALS BY X-RAYS MEASURED BY PULARIZATION METHOD N63-17654 16-17	MATERIALS RESEARCH - MATERIAL SCIENCE, LIQUID AND SOLID MATERIALS, RADIATION EFFECT, TRANSPORT PROPERTIES, ELECTRIC AND THERMAL PROPERTIES ACR-61 N63-19211 18-33
EFFECT OF ANTIOXIDANTS ON SURVIVAL TIME OF RATS EXPOSED TO RADIATION - DIET AND RADIATION RESISTANCE	RADIATION EFFECT ON METAL BORIDE CRYSTALLOGRAPHY
AMRL-TDR-63-28 N63-17674 16-16	HIGH TEMPERATURE MATERIAL - RADIATION EFFECT IN
BIBLIOGRAPHY - PULSED RADIATION EFFECTS ON ELECTRONIC MATERIALS, COMPONENTS AND SYSTEMS	BERYLLIUM GXIDE GENP-24A N63-19231 18-11
REIC-HENO-24 N63-17715 16-01	EFFECTS OF RADIATION EXPOSURE ON ANIMALS -
EXPERIMENTAL RADIATION EFFECT DATA EGG-8-2462 N63-17768 16-25	RADIATION SICKNESS STUDY - MEDICAL USE OF ATOMIC ENERGY & PHARMACOLOGICAL AGENTS
RADIATION INDUCED PLASTIC MEMORY IN POLYETHYLENE	N63-19310 16-16
AND USE IN SPACE ERECTABLE STRUCTURES NASA-CR-50447 N63-18164 16-19	RADIATION EFFECTS IN BORIDES - HELIUM RELEASE AND SWELLING IN IRRADIATED BORIDES N63-19334 19-19
RADIATION EFFECT IN CHEMISTRY, BIOLOGY AND PHYSICS NASA-CR-50486 17-01	RADIATION TOLERANCE OF MATERIALS AND COMPONENTS
RADIATION PROGRAM SUMMARIES - DOSIMETRY, HALOGEN COMPOUND, POLYMERS, MONOMERS, GAMMA RADIATION, AND	IN SPACE APPLICATIONS — CERAMICS, PLASTICS, ADHESIVES, SEMICONDUCTORS AND RESISTORS LNSC-8-19-62-8 N63-19395 18-23
NEUTRON TRANSMUTATION BNL-790/C-37/ N63-18295 17-07	HOT FLOW CHARACTERISTICS OF POLYETHYLENE AFTER
PRESSURE PULSES, SHOCK AND VIBRATORY LOADING ON	HARF-63-IT NUCLEAR RADIATION N63-19439 19-19
LAUNCH VEHICLE CONNECTORS - HEAT ENVIRONMENT, VACUUM AND RADIATION EFFECTS ON CONNECTOR GASKETS NASA-CR-50562 17-17	HIGH-ENERGY RADIATION DAMAGE TO SEMICONDUCTORS - # ANALYSIS OF FAILURE MECHANISMS
MEDICAL-BIOLOGICAL PROBLEMS OF MANNED	RADC-TDR-63-226 N63-19465 19-25
SPACEFLIGHTS - EFFECTS OF OVERLOAD, WEIGHTLESSMESS AND RADIATION N63-18452 17-16	RADIATION EFFECTS ON BIOLOGICAL SYSTEMS - MECHANISM OF RADIATION EFFECTS ON CELLS - RADIOBIOLOGY No3-19489 19-16
SPACE ENVIRONMENTS - VACUUM, THERMAL VACUUM, ULTRAVIOLET AND PARTICLE RADIATION - EFFECTS ON	RADIATION EFFECTS ON HEARTS OF DOGS
PLASTIC MATERIALS - THERMOPLASTICS N63-18728 17-19	UR-625 N63-19635 19-M
RADIATION EFFECT ON METEROGENEOUSLY CATALYZED REACTIONS AND CHEMISORPTION - ANNOTATED	RADIATION EFFECTS ON ELECTRONIC EQUIPMENT, SEMICONDUCTORS, POLYMERS, FLUIDS, CERAMICS, DOSIMETRY
BIBLIOGRAPHY ORNL-3461 N63-18816 18-07	REIC-28 N63-19714 19-23
PATHO-PHYSIOLOGIC ASPECTS OF RADIATION NEPHRITIS	SOLAR RADIATION PRESSURE EFFECT ON EXPLORER XII
IN DOGS UR-626 N63-18825 18-16	NASA-TN-D-1855 N63-19735 19-38
PROTON-NEUTRON DAMAGE CORRELATION IN	RADIATION EFFECT IN ENERGY AND MOMENTUM TRANSPORT IN GAS N63-19786 19-31
SEMICONDUCTORS - SILICON SOLAR CELLS & RADIATION EFFECT	INTERNAL ZIRCONIUM HYDRIDE FORMATION IN ZIRCALDY
NASA-CR-50422 N63-18856 18-09	FUEL ELEMENT CLADDING UNDER IRRADIATION WAPD-TH-351 N63-19797 19-07
CHEMICAL PROTECTION AGAINST HEMATOPOIETIC, GASTROINTESTINAL AND CENTRAL NERVOUS SYSTEM RADIATION DAMAGE N63-18938 18-16	RADIATION BIOLOGY EXPERIMENTS UR-627 N63-19811 19-16
BIOLOGY OF THE LYMPHOCYTE AND ITS REACTION TO RADIATION N63-18957 18-16	NUCLEAR RADIATION EFFECT ON BARIUM TITAMATE & LEW ZIRCONIUM TITAMATE - PIEZOELECTRIC CRYSTALS
CHATURE TO THE TAXABLE PARTY OF THE PARTY OF	PA-TR-3045 N63-19954 19-23

NUCLEAR RADIATION EFFECTS IN IMPACT DETECTOR,

BONE MARROW TRANSPLANTATION AND ITS APPLICATION TO RADIATION EFFECTS, APLASTIC CONDITIONS, AND

15 1-16 WT 1-16

-15

-16 NB -23 Y

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-19

-23

25

16

23

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AS 25

TRIGGER CIRCUIT AND DIRECT CURRENT AMPLIFIER N63-20017 19-09	CORROSION AS TOTAL STATE AND ASSESS OF ASSESS
EFFECTS OF NATURAL SPACE RADIATION ON SPACECRAFT SYSTEMS LIFE - PHOTOGRAPHIC FILM DEGRADATION 02-00037 N63-20172 20-28	DAMAGE TO SILICON INDUCED BY RADIATION - REVIEW OF CHANGES IN SEMICONDUCTOR PROPERTIES NASA-CR-51044 21-23
SOLID STATE PHYSICS - RADIATION DAMAGE, ELECTRON MICROSCOPY, IONIC CRYSTALS, X-RAY DIFFRACTION, SIN RESONANCE, AND RADIATION METALLURGY ORK-3450 20-25	PREDICTION OF TRANSIENT NUCLEAR RADIATION EFFECTS ON ELECTRONIC CIRCUITS AND DEVICES RTO-TDR-63-3007 N63-21216 21-09
TRANSIENT RADIATION EFFECTS IN ELECTRONIC PARTS AND RATERIALS N63-20231 20-09	RADIATION DAMAGE BY COMPTON SCATTERING IN GAMMA OR X-RAY PUMPED LASERS RR-TN-63-2
NEUTRON-GANNA RATIO DEPENDENCE OF TRANSIENT LADIATION EFFECTS IN ELECTRONIC PARTS N63-20232 20-09	ROLE OF TIME FACTOR IN RADIATION REACTIONS OF CENTRAL NERVOUS SYSTEM - SPACE BIOLOGY N63-21526 22-16
MESPONSE OF P-N-P-N TRANSISTOR SWITCH TO PULSED MICLEAR RADIATION - RADIATION EFFECT N63-20233 20-09	NUCLEAR RADIATION EFFECT ON NATERIALS AT CRYOGENIC TEMPERATURES - EQUIPMENT, HANDLING, REFRIGERATION AND TESTING NASA-TH-X-50578 R63-21734 22-23
RADIATION EFFECTS IN COAXIAL CABLES DUE TO GAMMA- REUTRON RADIATION IMPULSES N63-20234 20-09	RADIATION STABILITY OF URANIUM MOMONITRIDE BRI-1638 N63-22070 22-23
ELECTRON PRODUCTION AND TRANSPORT IN ELECTRONIC MIERIALS IN A PULSED NUCLEAR ENVIRONMENT	NUCLEAR MEAPONS EFFECT ON HARDENED STRUCTURES RTD-TDR-63-3023 N63-22126 22-23
RADIATION EFFECT N63-20235 20-09 CREATION OF ION PAIRS IN MATERIALS IN PULSED N63-20236 20-09	SPECTROSCOPIC STUDIES OF RADIATION DAMAGED BROWNING ISOTOPES AROD-2770-3 N63-22156 22-19
THEMONUCLEAR REACTOR FOR STUDY OF PROCESSES OF MUTOCHEMISTRY AND RADIOCHEMISTRY AND EFFECTS OF MUCLEAR RADIATION ON SOLIDS AND SEMICONDUCTORS	RECOMBINATION, TRAPPING & ELECTRON SPIN RESONANCE IN NORMAL AND IRRADIATED SILICON
AID-P-63-88 N63-20252 20-10 SPACE RADIATION EFFECTS ON SOLAR CELL POWER SYSTEMS IN SPACECRAFT	EFFECTS OF GAMMA RADIATION ON FLOTATION AND DAMPING PROPERTIES OF FLUOROLUBE RAE-TM-SPACE-19 N63-22213 23-17
NASA-SP-3003 N63-20315 20-06 INACTIVATION OF ENCYSTING AZOTOBACTER CELLS BY IONIZING RADIATION	GENETIC VARIABILITY IN VIRUSES AND BACTERIOPLAGES UNDER ACTION OF RADIATION AND CHEMICAL AGENTS N63-22297 23-16
SAM-TOR-63-13 BIOLOGICAL, MEDICAL RESEARCH - BIOMEDICINE, ANIMAL STUDIES OF RADIATION DAMAGE, AMINO ACID HIGHWITHESIS, DYNAMICS OF TUMOR GROWTH	CHARGED PARTICLE RADIATION DAMAGE IN SILICON AND GALLIUM ARSENTOE SOLAR CELLS NASA-CR-51530 N63-22353 23-09
AML-6723 N63-20436 20-16 CLINICAL ASPECTS OF RADIATION DAMAGE TO ANIMALS N63-20438 20-16	MICROMAVE & PLASMA INTERACTION - THEORETICAL STUDY OF NONSTEADY ASPECTS OF PLASMA RESPONSE TO MICROMAVE RADIATION RESSORTS NOS-22419 23-24
NUCLEAR RADIATION DAMAGE OF CERAMIC REACTOR FUEL REIG-27 N63-20518 20-19	POST MORTEM DISCOVERY OF RADIOISOTOPE
EFFECTS OF RADAR ON HUMAN BODY - MICRONAVE RADIATION EFFECTS N63-20589 20-16	THERAPY JPRS-20986 433-441 44 1430-441 463-22432 23-16 4
X-RAY IRRADIATION EFFECT ON GLYCOGEN CONTENT OF RAT BRAIN 20-16	HIGROWAVE EFFECT ON CARDIOVASCULAR SYSTEM OF A
EFFECT OF RADIATION ON CARBOHYDRATE METABOLISM IN MONKEYS - HYPERGLYCEMIA SAM-TOR-63-40 N63-20656 20-16	LIMITED ROLE OF ADULT THYMUS IN RECOVERY OF THE HONOGRAFT RESPONSE IN IRRADIATED MICE USWRDL-TR-661
EFFECT OF PULSED NUCLEAR RADIATION ON QUARTZ CAYSTAL FREQUENCY CONTROL USABLROL-TR-2320 N63-20672 20-25	BIGLOGICAL EFFECT OF GAMMA RADIATION AND THERMAL INJURY JPRS-21170 N63-22553 29-16 MAX
PATHOLOGICAL EFFECTS OF COMBINED X-RAY RADIATION & ELECTROMAGNETIC FIELD UNDER INDUSTRIAL CONDITIONS JPRS-20872 N63-20896 21-16	GLYCOGEN CONTENT IN NERVOUS SYSTEM OF FROES AFTER CAMMA RADIATION N63-22554 23-16
CORNEAL EPITHELIUM MITOSIS IN MICE FOLLOWING GAMMA IRRADIATION - RADIATION EFFECT ON EYE JPRS-20735 N63-20714 21-16	RABBIT EYES EXPOSED TO ELECTROMAGNETIC RADIATION OF DIFFERENT SPECTRAL DISTRIBUTIONS TO COMPARE EFFECTIVENESS IN PRODUCING CHORIORETINAL BURNS AMAL-TDR-63-71 N63-22615 23-16
STRUCTURAL RESPONSE TO INTENSE ELECTROMACNETIC RADIATION - RADIATION EFFECT N63-20768 21-24	CIVILIAN APPLICATIONS OF NUCLEAR ENERGY - REACTOR MATERIALS & FUEL TESTING BM1-1642/DEL./ 25-23
HIGH ENERGY RADIATION - PROPERTIES, DETECTORS, ABDIATION CHEMISTRY, UNITS OF MEASUREMENT, & EFFECTS ON MATERIALS	PULSED NUCLEAR RADIATION EFFECTS ON ELECTRONIC
AADIATION EFFECTS ON ALUMINUM FILMING AND	USAELROL-TN-2306 N63-22676 23-23 GAR

INSULATORS AFTER HIGH ENERGY	ELECTRON IRRADIATION N63-22693 23-19
INGRGANIC MOTOR INSULATORS IN HIGH TEMPERATURE AND IRRADIA	
RADIATION EFFECTS ON BERYLLIG	UM OXIDE
PROTON RADIATION DAMAGE TO S	N63-22778 23-13
NASA-CR-51532	N63-22890 23-25
CHARGED PARTICLE RADIATION DO GALLIUM ARSENIDE SOLAR CELLS NASA-CR-51931	AMAGE IN STLICON AND
CHARGED PARTICLE RADIATION DA SEMICONDUCTORS - EFFECT OF 1-	MAGE IN
NASA-CR-51529	N63-22892 23-06
CHARGED PARTICLE RADIATION DA	AMAGE IN TILICON SOLAR
NASA-CR-51533	N63-22893 23-06
CHARGED PARTICLE RADIATION DO SENICONDUCTORS - ENERGY DEPENDANAGE IN SILICON	MAGE IN NDENCE OF PROTON
	N63-23007 24-25
INFRARED SPECTRA OF PLASTICS MUCLEAR IRRADIATION - CHANGE STRUCTURE & GROWTH & DECAY OF	IN MOLECULAR
CORPUSCULAR RADIATION PRODUCE AT LUNAR SURFACE	ED CRYSTALLINE DAMAGE N63-23402 24-28
HIGH-TEMPERATURE REACTOR-MATE EFFECT OF RADIATION ON HIGH-T GEMP-27A	
PULSED NUCLEAR RADIATION EFFE SILICON & GERMANIUM TRANSISTO	
DESIGN OF BIOLOGICAL IRRADIAT FOR STUDY OF BIOLOGICAL AND O RADIATION ON PERSONNEL ANL-6745	FION FACILITY JANUS GENETIC EFFECTS OF N63-23570 24-23
IBM 7090 COMPUTER PROGRAM SIN CASCADES IN BINARY MATERIALS FACE-CENTERED CUBIC STRUCTURE GEMP-243	HULATING COLLISION - BODY-CENTERED AND
RADIATION FORCES AS COMPONENT	T OF SPACECRAFT
LMSC-A384055	N63-23691 24-23
PREVENTION OF RADIATION FATAL OF SELEMIUM SALTS AFTER X-RAY FTD-TT-62-1227/16364	IRRADIATION
RADIATION DAMAGE TO ELECTRONI	BOMELIS AND TUBBLE VESTINGONO
REIC-32	N63-23779 24-28
DIATION EXPOSURE PROCEDURE FOR CALCULATING RAD SPACE MISSIONS	DIATION EXPOSURE ON
ANATONICAL CHANGES IN LUNGS F	FOLLOWING RADIATION
AEC-TA-5500 2,00000107210	N63-1549C 12-16
EXPOSURE OF EARTH SATELLITES RADIATION - SECONDARY RADIATI AEOC-TDR-63-92	ION ENVIRONMENT
DETERMINATION OF EXPOSURE BY	RECORDINGS OF WRIST
ANL-6765	N63-21390 22-16
STATION FIELD RADIATION THROUGH CYLINDRICAL	PLASHA SHEATHS
AFCRL-62-976 10 STATE HAS	N63-16599 14-24

SUBJECT INDEX FIELD ALIGNED DUCTS AND PROPAGATION OF DECAMETER RADIATION FROM MAGNETOSPHERE OF JUPITER N63-19531 RADIATION FIELD PRODUCED BY INFINITE SUCH INFINITE CYLINDER SURROUNDED BY HOMOGENEOUS PLASM N63-20293 26-24 RADIATION FIELD PRODUCED BY INFINITE SLOT IN IMPEDANCE AND RADIATION FIELD OF MONOPOLE ANTENNA IN DIELECTRIC CAVITY NASA-CR-51097 N63-21046 21-01 TANK-MOUNTED BOOSTER PUMPS FOR PROVIDING NET ANK-MOUNTED BOUSIER PURPS FOR PROTURBO-PUMPS OPERATING IN DOSITIVE SUCTION HEAD FOR TURBO-PUMPS OPERATING IN ADDIATION ENVIRONMENT N63-22319 23-21 RADIATION ENVIRONMENT INTERIM INTERSTELLAR RADIATION FIELD N63-23060 24-28 RADIATION FIELD OF HORIZONTAL MAGNETIC DIPOLE WITHIN CONDUCTING EARTH AFCRL-63-384 24-12 RADIATION FUNCTION
TABLE OF PLANCK RADIATION FUNCTION - BLACKBODY
SPECTRAL RADIANCE AS FUNCTION OF WAVE NUMBER,
77 TO 30,000-DEG K AFCRL-62-877 N63-11858 04-23 ELECTRICAL TRANSMISSION AND RADIATIVE PROPERTIES
OF HYPERSONIC PURE AIR WAKES AS A RESULT OF
CHEMICAL NONEQUILIBRIUM FLUSH MOUNTING LOG PERIODIC ANTENNAS OVER CAVITIES ON COMDUCTING SURFACES - INPUT IMPEDANCE AND RADIATION CHARACTERISTICS N63-13590 08-08 EFFECT OF CAVITY ON IMPEDANCE AND RADIATION PROPERTIES OF LOG PERIODIC ANTENNA-CAVITY ASSEMBLY M63-13591 08-08 RADIATION HAZARD HAZARDS OF ELECTROMAGNETIC RADIATION TO ORDNANCE /HERO/ - RF CHARACTERISTICS OF ELECTROEXPLOSIVE DEVICES - MISSILE PROPULSION SYSTEM M63-13696 08-01 PROTECTION AGAINST RADIATION HAZARDS IN SPACE TID-7652, 8K-1 RADIATION EFFECT ON MISSION OF MAN IN SPACE N63-15115 EARTH RADIATION BELTS - RADIATION HAZARD N63-15116 HAZARD OF SOLAR AND GALACTIC COSMIC RADIATION N63-15117 11-28 COMPOSITION OF SOLAR COSMIC RAYS - RADIATION M63-15118 11-28 ENERGY SPECTRA, INTENSITY AND RADIATION OF COSMIC RAYS FROM SOLAR PROTON EVENTS N63-15119 11-28 SOLAR PROTON EVENT INFORMATION FROM IONOSPHERIC RADIO OBSERVATIONS N63-15120 11 N63-15120 11-20

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s -28

-25

ANDTON BOMBARDHENT ON TRANSISTOR CIRCUITS AT 40 AND 440-MEY IN RADIATION BELT N63-15126 11-25	ESTIMATION OF SPACE RADIATION EXPOSURE DURING LUNAR RISSION - SPACECRAFT SHIELDING N63-15152 11-32
PROTON RADIATION DAMAGE IN SEMICONDUCTING TRANSISTOR DEVICES - RADIATION HAZARD N63-15127 . 11-25	RADIATION DOSE FROM ELECTRONS AND BREMSSTRAHLUNG IN VAN ALLEN BELT - SPACECRAFT SHIELDING N63-15153 11-32
SOLAR CELL DEGRADATION BY PROTON BOMBARDMENT - MODILITION HAZARD 11-06	DESIGN OF SPACECRAFT SHIELDING OF MINIMUM NEIGHT - PROTORS AND SECONDARY NEUTRONS N63-15154 11-34
ELECTRON IRRADIATION EFFECT ON NECHANICAL MOPERTIES OF COMPOSITE FOIL FOR INFLATABLE SATELLITES N63-15129 11-32	SPACECRAFT SHIELDING BY MAGNETIC FIELDS N63-15155 11-32
EFFECTS OF ACUTE RADIATION EXPOSURE IN HUMANS M63-15130 11-16	SPACECRAFF SHIELDING - CALCULATION METHODS FOR ACTIVE AND PASSIVE SHIELDS M63-15156 11-32
MAIARDOUS LATE EFFECTS OF RADIATION EXPOSURE IN N63-15131 11-16	SHIELDING METHODS FOR HIGH-ENERGY ACCELERATORS APPLIED TO SPACECRAFT SHIELDING
TADIATION HAZARD OF HEAVY GALACTIC COSMIC RAYS - DEUTERON MICROBEAM STUDY 8 N63-19132 11-28	CASCADE FROM HIGH-ENERGY PROTONS IN DENSE MATTER - RADIATION HAZARD N63-15156 11-26
MODIATION HAZARO MALARO	RADIATION HAZARDS OF PI AND MU MESONS - BTOLOGICAL
NAZARDS OF RADIATION EXPOSURE ON HUMAN BEHAVIOR AND PERFORMANCE N63-15134 11-16	N63-15159 11-16 SAFETY ANALYSIS - EXPERIMENTAL BREEDER REACTOR-1
SIDLOGICAL EFFECT OF SOLAR FLARE RADIATION - LETHAL DOSE IN RATS N63-15135 11-16	MITH MARK IV PLUTONIUM FUEL CORE - RADIATION HAZARD AND TOXICITY ANI-6411 N63-15937 13-10
SPECTRUM ANALYSIS OF HIGH ENERGY PROTON RADIATION, LINEAR ENERGY TRANSFER /LET/ AND RELATIVE BIOLOGICAL EFFECTIVENESS /RBE/ N63-15136 11-28	RADIATION MAZAROS TO MEN IN SPACE - VAN ALLEN BELTS, ELECTROMAGNETIC RADIATION, SOLAR FLAME PROTONS, GALACTIC COSMIC PARTICLES
HADIATION HAZARO - RELATIONSHIP OF RELATIVE BIOLOGICAL EFFECTIVENESS /RBE/ AND LINEAR EMERGY TRANSFER /LET/ N63-15137 11-16	P-2691 AMAGE MI ALA MORE MATTER M63-16171 13-32 HAZARD OF PROTON-INDUCED IOMOSPHERIC RADIATION TO SPACE FLIGHT SAFETY
PROTECTION AGAINST RADIATION HAZARDS IN SPACE - BOOK II, DOSE MEASUREMENT AND SHIELD DESIGN FOR PRIMARY AND SECONDARY EMISSION	SAFETY - RADIATION, VENTILATION, & REACTOR HAZARDS CONTROL UCRL-7254 111000 10 100000 100000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 100000 10000 10000 10000 10000 10000 10000 10000 10000 10000 100000 100000 10000 10000 10000 10000 10000 10000 100000 10000 10000 10000 100000 10000 10000 10000 10000 10000 10000 10000 10000 10000 1000
TID-7652, BK. 2 N63-15138 11-28 REASUREMENT OF SECONDARY SPECTRA FROM HIGH-ENERGY	METHODS OF RADIATION HAZARDS CONTROL UCRL-7355 M63-21411 22-23
MONTE CARLO METHOD FOR CASCADES OF HIGH EMERGY NUCLEAR PARTICLES N63-15140 11-23	NUCLEAR SAFETY - PHYSICS, FISSION RELEASE AND BEHAVIOR, CONTAINMENT ENGINEERING, INFORMATION CENTER, RADIOCHEMICAL PLANTS, SPACE RADIOBIOLOGY ORML-3483 N&3-21471 22-16
REASUREMENT OF NUCLEAR SECONDARY PARTICLES FROM INTERACTION OF PROTONS N63-15141 11-32	SPACE FLIGHT AND RADIATION HAZARD - BIOLOGICAL EFFECT OF IONIZING RADIATION - M63-21934 22-28
SECONDARY-EMISSION DOSE CONTRIBUTIONS INDUCED BY SOLAR PROTON RADIATION - SPACECRAFT SHIELDING N63-15142 11-16	RESIDUAL RADIDACTIVITY FOLLOWING CYCLOTRON SHUT-
MONTE CARLO METHOD FOR NUCLEON TRANSPORT THROUGH SPACECRAFT SHIELDING N63-15143 11-28	PLANETARY & INTERPLANETARY ENVIRONMENT - SOLAR SYSTEM, PLANETS & THEIR SATELLITES, RADIATION &
RADIATION DOSE IN TISSUE FROM HIGH-ENERGY PROTONS N63-15144 11-16	SPACE DEBRIS HAZARDS NASA-GR-52076 - 23-23 - 23-23 - 23-23 - 23-27
SPACE PROTON DOSES AT POINTS IN HUMAN BODY - SPACECRAFT SHIELDING N63-15145 11-16	RADIATION INTENSITY TABLES OF BLACK-BODY RADIATION GIVING SPECTRAL RADIANT INTENSITY OF BLACK-BODY RADIATOR
RADIATION SHIELDING FOR SPACECRAFT - APOLLO PROJECT N63-15146 11-32	AE62-0862 N63-1066B 02-28 ALTERNATE CONCLUSIONS ON TIME VARIATIONS OF
SPACECRAFT SHIELDING DESIGN BY MONTE CARLO AND IONIZATION CALCULATIONS N63-15167 11-32	INTENSITY IN THE INNER RADIATION ZONE BASED ON EXPLORER VII DATA N63-11577 04-28
EFFECT OF NUCLEON-MESON CASCADE FROM PROTON BEAM ON ALUMINUM SPACECRAFT SHIELDING N63-15148 11-32	VARIATIONS IN THE COSMIC-RAY NUCLEONIC INTENSITY AFCRL-63-242 047-62W N63-13662 08-28
TRANSPORT CALCULATIONS FOR PROTON SHIELDING N63-15149 11-28	MICRONAVE RADIATION INTENSITY AT CYCLOTRON RESONANCE IN COLD PLASMA - NEGATIVE TEMPERATURE 1PPJ-6: N63-15067 13-24
RADIATION DOSE FROM PRIMARY COSMIC RAYS COMPARED TO DOSE FROM GAMMA RAYS PRODUCED BY PROTON-PROTON REACTIONS IN SOLAR FLARE - SPACECRAFT SHIELD N63-15150 11-28	SOLAR FLARE INDEX 1961 - DURATION, AREA, MAXIMA, AND INTENSITY - MCMATH-HULBERT OBSERVATORY IGY SOLAR ACT. REPT21 N63-15964 13-28
PROTON FLUXES ALONG TRAJECTORIES THROUGH INNER VAN ALLEN BELT	POWDER POROSITY EFFECT ON X-RAY INTENSITY MEASUREMENTS MRL-114/R/ N63-16256 313-23

COSMIC RADIATION INTENSITY IN 1R SPALLATION PRODUCT BY PROTON IRR	ON METEORIT	ES -	GCA-TR-63-3-N	N63-17316	15-0
NASA-CR-50194 N63-16884 14-25 EFFECTS OF DIFFERENT TYPES AND INTENSITIES OF		14-25	MEASURING IONIZING RADIATION WIT LUMINESCENT DOSIMETERS - SATELL		
RADIATION ON HUMAN PHYSIOLOGY AN FRL-TN-90		14-16	INSTRUMENTATION NRL-5938		16-1
PLANETARY AERONOMY - ABSOLUTE IN ULTRAVIOLET RADIATION MEASURED B			AERIAL RADIOLOGICAL MEASURING SI HIGH-INTENSITY RADIATION FIELD (CEX-62.6.2		A HAR
TECHNIQUE GCA-TR-63-3-N	N63-17316	15-07	STRATOSPHERIC CIRCULATION DATA (
ABSOLUTE RADIATION INTENSITIES I ULTRAVIOLET REGION MATT-186	N VACUUM	15-15	DURING WINTER OF 1961 - TIROS II		
ATMOSPHERIC RADIATION INTENSITY DISTRIBUTION OF LIGHTWING DISCHA	AND FREQUEN	CY	ATMOSPHERIC RADIATION MEASUREMENTS SPECTROMETER AFCRL-63-439		
THERMAL STRUCTURE AND WATER VAPO EARTH ATMOSPHERE FROM MEASUREMEN INFRARED RADIATION INTENSITY	N63-18221 OR CONCENTRA IT OF OUTGO! N63-21110	TION IN	OPTICAL INSTRUMENT CALIBRATION (RADIATION MEASUREMENTS - INFRARI AND VISIBLE SPECTRA - DEFENDER (BANTRAC-4613-20-R	ED, ULTRAVIO	AGNETI LET,
ADIATION HEASUREMENT CF GEIGER COUNTER			GAMMA RADIATION BACKGROUND HEAST		
GAMMA RADIATION DETECTION AND ME EMPHASIS ON SPACE AND ASTRONAUTI			AERE+R-4137		
ABSTRACTS JPL-AI/LS-205	N63-13704	08-15	INTERPRETATION OF RADIATION MEAN TIROS III METEOROLOGICAL SATELL MEASUREMENTS		VAPOR
MEASUREMENTS OF OPTICAL RADIATIO LAYER FLOW ABOUT HEMISPHERE-CYLI AT 5.2 KM PER SECOND		DARY	IGY ROCKET PROGRAM RESULTS - TEL DENSITY & RADIATION MEASUREMENT	MPERATURE, W	77.0
TR62-209E 1 444 200 20114204	N63-14031	09-11		N63-19676	19-1
MEASUREMENTS OF RADIATION FROM A REGION OF HIGH VELOCITY MODELS TR62-209F			TELEMETERING MONOCHROMATOR MEAS 304-A RADIATION AND ITS ATTENUA ATMOSPHERE		
RADIAC CALIBRATOR FOR SHIPBOARD DETECTORS		TION 10-15	EMISSION-LINE INTENSITIES IN SO	N63-19695	LET 19-6
CONCEPT AND DESIGN OF RADIOLOGIC	AL MONITORI N63-14371	NG 10-01	NAVAL RESEARCH LABORATORY LYMAN MEASUREMENTS.	-ALPHA RADIA N63-19700	
IN-AIR RADIATION MEASUREMENTS IN SHIELDING REACTOR II ORNL-3288	VICINITY 0		INFRARED RADIATION FROM HYPERSON RADIATION MEASUREMENT, DOWNRANG FIELD ANALYSIS	E MEASUREMENT	T, FLO
RADIATION MEASUREMENTS FROM ULTR INFRARED AND ENERGY CONVERSION U SOLAR CELLS		NDUCTOR 11-15	CAL-QM-1626-A-13 RADIATION MEASUREMENTS OF RADIO FROM KIMI B-1A, B-1B AND B-4A RILANS-2932	ACTIVE DEBRIS	S
XENON FLASHTUBE THERMAL PROPERTY RADIATION MEASUREMENT USNROL-TR-617			MEASUREMENT OF KUKLA GAMMA RADI. BY PULSE SHAPE DOSINETRY	and the time to the last	
PROTECTION AGAINST RADIATION HAZ BOOK II, DOSE MEASUREMENT AND S	ARDS IN SPA	CE - V	NEUTRON FLUX MEASUREMENTS OF KU ASSEMBLY - RADIATION MEASUREMEN	KLA PROMPT CI	RITIC
PRIMARY AND SECONDARY EMISSION TID-7652, BK. 2	N63-15138	11-28		N63-20814	21-
MEASUREMENT OF SECONDARY SPECTRA NUCLEAR REACTIONS	FROM HIGH- N63-15139	ENERGY 11-23	FLASH X-RAY DOSTHETRY - RADIATIO	N63-20815	21-1
MEASUREMENT OF NUCLEAR SECONDARY			PROFILE MEASUREMENT OF THIN LAY EMITTING MATERIALS MLM-1159	N63-20922	21-2
DENSITY DETERMINATION OF GERAMIC ELEMENT FOR REACTOR CORE - RADIA	FUEL WAFER TION DETERM N63-15265	INATION	HIGH ENERGY RADIATION - PROPERT RADIATION CHEMISTRY, UNITS OF M EFFECTS ON MATERIALS	IES, DETECTOR	
SPACE SCIENCE - SPACECRAFT - JUN	D LAUNCH		BNL-748/T-274/		21-
VEHICLES AND RADIATION HEASUREHE	NT N63-16010	13-32	HIGH SPEED SCANNING DEVICE FOR RADIATION MEASUREMENTS OF LUMIN		ıc
HEASUREMENT OF RADIATION FROM PR	OJECTILES I	NATAGES NA	AVCO-EVERETT RES. REPT155	N63-22200	23-1
CARDE-TH-740/63	N63-16148	13-01	DOSIMETRY TECHNIQUES & DEVICES -		TE.
MARINER II SPACECRAFT AND VENUS MEASUREMENT		MATERIA	REIC-33	N63-22636	23-
JPL-TR-32-429	N63-16423		RADIATION MEASUREMENT DATA FROM SATELLITE		
PLANETARY AERONOMY - ABSOLUTE IN ULTRAVIOLET RADIATION MEASURED B TECHNIQUE	TENSITY OF Y PHOTOIONI	VACUUM	NASA-CR-4 EFFECT OF IONIZING RADIATION ON	No3-22406	23-

EFFECT OF IONIZING RADIATION ON FUNCTION OF

16-15 VER 17-23

TES TA 17-21

18-21 NETIC T,

18-15

PGR 19-21 D, 19-12 LAR 19-12

T 19-05 OH 19-05

FLOW 19-11

21-10 ENT 21-23 FICAL 21-23

21-23

21-23

23-11

23-16

WESTIBULAR ANALYZER JPRS-21280 N63-23005 24-16	GASTROINTESTINAL AND CENTRAL NERVOUS SYSTEM RADIATION DAMAGE 10-16
RADIATION EFFECTS, BIOLOGY AND MEDICINE MASA-CR-51998 M63-23017 24-16	SPACE MEDICINE - LEUKEMIA, AMEMIA AND RELATED HEMATOLOGICAL DISORDERS FROM ATOMIC RADIATION
RIPHASE NATURE OF EFFECT ON BONE MARROW IN CHRONIC RADIATION INJURY N63-23298 24-16	N63-18950 18-16 EFFECTS OF RADIATION EXPOSURE ON ANIMALS -
SATELLITE PHOTOGRAPHY AND RADIATION DATA USES IN	RADIATION SICKNESS STUDY - MEDICAL USE OF ATOMIC ENERGY & PHARMACOLOGICAL AGENTS
OPERATIONAL WEATHER FORECASTING AND EARTH ENERGY BUDGET DETERMINATIONS N63-23444 24-21	N63-19310 18-16 RADIATION EFFECTS, BIOLOGY AND MEDICINE
RADIATION FROM ARC HEATED PLASMA - HIGH TEMPERATURE NITROGEN M63-23483 24-24	NASA-CR-51998 N63-23017 24-16
POWER RADIATION FROM ALTERNATING CURRENT ARC - TIME AVERAGE AND TIME VARYING MEASUREMENT N63-23485 24-13	RADIATION PATTERN, DISTRIBUTION MEASUREMENT AND PRODUCTION OF A SPACE RADIATION DIAGRAM OF AIRCRAFT ANTENNAS AND THE PROBLEM OF POLARIZATION
A 2 LOCAL THACHNESS AND A 22 HAVE AND	WGL PAPER-41 N63-10037 01-08
CAMMA RADIATION MEASUREMENT IN CAMDEN-DELAWARE VALLEY AREA	THEORY OF ANTENNAS WITH CORRUGATED GUIDING SURFACE
CEX-61.6.3. N63-23751 24-16	FTD-TT-62-1140/162 N63-10304 01-08
INTERPLANETARY MONITORING PLATFORM-A /IMP-A/ TO MEASURE CHARGED PARTICLE RADIATION	BACKFIRE BIFILAR HELICAL ANTENNA - RADIATION PATTERN N63-10637 02-08
N63-23821 24-32	FREQUENCY STEERING OF RADIATION PATTERN OF
MOIATION MEDICINE RADIATION MEDICINE - CHEMOTHERAPY, SKIN CHRONAXY	ANTENNA ARRAYS JPRS-17225 N63-12012 05-09
AND VISUAL AMALYZERS, SPLEEN HOMOTRANSPLANTATION,	CONTRACTOR OF STREET AND STREET AND STREET AND STREET
BLOOD AND BONE MARROW STUDY JPRS-17402 N63-12391 06-16	GENERATION OF COHERENT VISIBLE RADIATION AND ELECTRICAL PROPERTIES OF GALLIUM P-N JUNCTIONS AFCRL-63-20/0/ 06-09
SAFETY OF PERSONNEL ENGAGED IN DIAGNOSIS AND	1000000 1200000000000000000000000000000
TREATMENT OF THYROID GLAND BY IODINE-131 N63-12392 06-16	ANTENNA DESIGN TO MINIMIZE BACKWARD WAYE RADIATION N63-13697 08-08
FIRST AID IN IODINE-131 POISONING - CHEMOTHERAPY N63-12393 06-16	WIDE FLARE HORN ANTENNA FEED DESIGN - RADIATION PATTERNS, LOW NOISE, BROADBAND & HIGH APERTURE EFFICIENCY CAPABILITIES
CHANGES IN PERIPHERAL BLOOD DURING RADIATION THERAPY N63-12394 06-16	of the state of th
EARLY CHANGES IN SKIN CHRONAXY AND VISUAL	INSPECTION OF BERYLLIUM CHIPS BY NONFILM RADIATION IMAGING - X-RAY FLUDROSCOPY
ANALYZERS - RADIOBIOLOGY N63-12395 06-16	IMAGING - X-RAY FLUOROSCOPY Y-1403 N63-14286 10-15
LUMINESCENT-MICROSCOPIC EVALUATION OF BLOOD & BONE	OPTIMUM SPACING FOR PARAMETER ESTIMATION OF GAMMA
MARRON DURING X-RAY IRRADIATION N63-12396 06-16	OPTIMUM SPACING FOR PARAMETER ESTIMATION OF GAMMA RADIATION DISTRIBUTION AROD-2776-10 N63-14826 11-20
SCIENTIFIC CONFERENCE ON RECOVERY FROM RADIATION INJURIES 06-16	APPLICATION OF ELECTROMAGNETIC ADSORBERS FOR
PROTECTION AGAINST IONIZING RADIATION -	SIDE-LOBE REDUCTION RADC-TOR-63-7 N63-15098 11-08
X-IRRADIATED MONKEYS RECEIVING PREIRRADIATION	212542-128042-894 T
PROPHYLAXIS AND POSTIRRADIATION THERAPY SAM-TOR-62-103 N63-12782 06-16	PATTERN SHAPING FOR LOW SILHOUETTE YAGI ANTEHMAS AFCRL-63-102 N63-16340 13-15
DIFFERENTIAL EFFECT OF SPECIFIC ANTISERA ON	KINETIC THEORY OF WAVES IN WARM PLASMA EXCITED BY
REJECTION OF ALLOGENIC AND XENDGENIC SKIN GRAFTS BY X-IRRADIATED MICE	CURRENT SOURCE - ANTENNA RADIATION PATTERNS AFCRL-62-970 N63-16478 14-24
USMRDL-TR-625 N63-14712 10-16	ALEANAGE USE THE SAME SAME SAME TO SAME THE SAME SAME SAME SAME SAME SAME SAME SAM
FUNDAMENTAL NUCLEAR ENERGY RESEARCH - RADIATION	ULTRAVIOLET STELLAR SPECTRA FROM ROCKET SOUNDINGS, COMPARISON OF OBSERVED RADIATION FLUX WITH MODEL
MEDICINE, PHYSICAL SCIENCES, ENVIRONMENTAL	STELLAR ATMOSPHERES AND INTERSTELLAR RADIATION
SCIENCE, NUCLEAR REACTOR, RADIOACTIVE WASTE N63-15708 12-01	THE ATT A THE REST OF THE PROPERTY OF THE PROP
HEALTH PHYSICS INSTRUMENT MANUAL	HYPERVELOCITY FLIGHT OF COPPER-PLATED-SPHERES IN LOW PRESSURE AIR - SHADOWGRAPHS AND RADIATION
ORNL-332/3RD ED./ N63-16031 13-15	A PALLED A description of the Part of the Language and th
REVIEW OF RADIATION PNEUMONITIS IN MEDICAL	ANY AMERICAN MERITAGES - STANDORNESS WARNESS
LITERATURE - LUNG RADIOPATHOLOGY WRU-110 N63-17653 16-16	RADIATION PATTERN OF AN ANTENNA ARRAY IMMERSED IN DISSIPATIVE MEDIA - LOSSY DIELECTRIC OR PLASMA
RADIATION MEDICINE - MOSPITAL DISASTER PLANS -	W63-20302 20-08
THERAPY H63-18237 17-16	RADIATION PATTERN OF THIN-WALLED PYRAMIDAL HORN ANALYZED BY GEOMETRICAL THEORY OF DIFFRACTION
RADIATION MEDICINE - APPLICATION TO CANCER RESEARCH - EFFECTS ON HUMAN BODY	RADC-TDR-63-273
ACRIH-19 N63-18345 17-16	OBSERVED RADIATION PATTERN DURING ACTUAL REENTRY
RADIATION THERAPY OF HALIGNANT DISORDERS USING	AND SPECTROGRAPHIC STUDIES OF RADIATION FROM PROJECTILES IN HYPERSONIC FLIGHT
TOTAL BODY IRRADIATION - USE OF MEDICAL NUCLIDES,	CARDE-TH-1564/63 N63-20919 21-23
RADIOISOTOPES, AND TRACERS ORINS-42 N63-18744 17-16	RADIATION SURROUNDING SPHERES OF MYLON. LEXAN &
CHENICAL PROTECTION AGAINST HEMATOPOIETIC,	REL-F IN AIR, NITROGEN & CARBON DIOXIDE DETECTED BY MULTIPLIER PHOTOTUBE SYSTEM
THE PROJECTION AGAINST HERRIUPULETICS	STANDARD CONTRACTOR - 313124 * STANDO SHI GOTONE

NOLTR-63-154	N63-22492	23-19	ORNL-3289	N63-11730	04-23
KRAMER & LINE RADIATION FROM NI IN EQUILIBRIUM & NONEQUILIBRIUM			NUCLEAR REACTOR - RADIATION DET SHIELDING	TECTION - RAD	IATION
DEFENDER PROJECT NASA-CR-51850	N63-23008	24-11	ORNL-3360	N63-11754	04-23
NONEQUILIBRIUM & EQUILIBRIUM RAI & INTERPLANETARY VEHICLE REENTR	DIATION AT L		INTERNATIONAL TRANSPORTATION OF FUELS - LEGAL, ECONOMIC AND SAF EUR-112.E,F, VOL. 3	FETY ASPECTS N63-11768	REACTOR 04-26
NASA-CR-51743	N63-23019	24-30	SAFETY RULES FOR WORKING WITH A		AX31to
RADIATION PATTERN FROM VERTICAL OF PARAMETRIC CURVES S-74-R-29	N63-23121	24-08	HATERIALS AEC-TR-5445	N63-11936	04-16
ANGULAR DISTRIBUTION OF EMITTED RADIANT ENERGY FROM DIFFUSE GRAV GROOVES	AND REFLECT	EO	CALCULATION OF EARTH SHIELDING REQUIRED FOR STANFORD TWO-MILE SLAC-9	ACCELERATOR	05-23
NASA-TN-D-1987	N63-23680	24-23	ACUTE RADIATION SICKNESS - PATH CHANGES IN THE EYE - PROTECTIVE		
RADIATION RESISTANCE ACOUSTIC RADIATION FROM A BEAM I PLATE	ATTACHED TO N63-10962	A THIN 02-23	MERCAPTOETHYLAMINE JPRS-17222	N63-12011	05-16
RADIATION RESISTANT SOLAR CELLS	M42-11224	03-25	RADIATION EFFECTS ON ANIMAL TIS RADIOPROTECTIVE DRUG STUDIES	N63-12251	ESPAN, 05-16
PROTON DAMAGE TO SILICON SOLAR (N63-11334 CELLS N63-12417	06-06	PROTECTION AGAINST IONIZING RAI X-IRRADIATED MONKEYS RECEIVING PROPHYLAXIS AND POSTIRRADIATION	PREIRRADIATI	ON
RADIATION RESISTANT SOLAR CELLS WITH BASE REGION IMPURITY GRADII ACCELERATES MINORITY CARRIERS TO ECS-2080-IR-1	ENT WHICH		SAM-TOR-62-103 ACTIVE RADIATION SHIELDING OF S DISCUSSIONS OF ELECTROSTATIC AN UTILIZATION	D MAGNETIC F	
RADIATION RESISTANT SILICON CELI	LS FOR SOLAR	ENERGY	AHP-94	M03-13334	08-23
CONVERSION	N63-14149		VINYL PLASTISOLS FOR USE IN NEU		TORING!
EFFECT OF ANTIOXIDANTS ON SURVIV EXPOSED TO RADIATION - DIET AND RESISTANCE		31449	RADIOPROTECTIVE AGENTS - DEPOLY		08-17 T
AMRL-TOR-63-28	N63-17674	16-16	RIBONUCLEIC ACID EFFECT ON RADI		
RADIATION RESISTANT FLIGHT CONTR AEROSPACE VEHICLES			SAM-TDR-62-85		08-16
ASD-TDR-63-75 HIGH TEMPERATURE RADIATION-RESIS	N63-19799	19-06	NUCLEAR REACTOR RADIATION SHIEL CRITICAL EXPERIMENT EUR-149.F	N63-13764	ORGEL OB-23
ARSENIDE SOLAR CELL ARRAYS - RES		-5310k1	PROTECTION AGAINST RADIATION HA		
RCA-AED-R-1875	N63-20239	20-06	TID-7652, 8K.1	N63-15114	11-28
RESPONSE OF POCKET MOUSE TO IONI MITH APPLICATION TO SPACE BIOLOG RESISTANCE			RADIATION SHIELDING FOR SPACECE PROJECT	N63-15146	11-32
METABOLIC RATES OF IRRADIATED PO			TRANSPORT CALCULATIONS FOR PROT	TON SHIELDING N63-15149	11-26
PEROGNATHUS LONGIMEMBRIS - SPACE	BIOLOGY N63-23533	24-16	SHIELDING OF GAMMA RADIATION BY AD-282393DRCL-370	DUCTS N63-15758	12-10
REMOTE HANDLING TECHNOLOGY AND E AUTOMATION, MASTER-SLAVE MANIPUL ENVIRONMENTAL PROTECTION	QUIPHENT SU	RVEY,	RADIOPROTECTIVE AGENTS - CORREI CONTENT AND DEGREE OF RADIORESI VITRO - RADIOBIOLOGY		LLS IN
AFSMC-TOR-62-117	N63-10670	02-17	SAM-TOR-63-17	N63-15885	13-16
DIFF - A FORTRAN CODE TO DETERMI DIFFUSION CONSTANTS FOR COMPOSIT MATERIALS			SPACE SCIENCE - SPACE VEHICLE F FROM NUCLEAR PROPULSION SYSTEMS ENVIRONMENT		ELDING 13-30
EUR-106-P	N63-10777	02-20	ATTENUATION OF GAMMA RADIATION		
PLASMA THERMOCOUPLE, RADIATION S PONDER METALLURGY LAMS-2796	Chiro a was a	ND 02-15	11-INCH RECTANGULAR DUCT - RAD! PROTECTIVE SHELTER INVESTIGATION R-195		
			LIMITATION OF MULTILAYERED RAD		(-U8K)
RADIATION SAFETY AND CONTROL - D SHIELDING TID-7027	M63-11535	03-16	CONDUCTION AND RADIATION TRANSP		FOIL
RADIATION HAZARDS - PROTECTION, AND SHIELDING	BIOLOGICAL	No. Acres	BIBLIOGRÁPHY - RADIATION SHIELD SB-62-2	N63-16329	13-28
JPRS-16995	N63-11543	0.744	FORTRAN COMPUTER PROGRAM FOR P-	-3 GAMMA RAY	
PREVENTION MEASURES FOR RADIATION JPRS-14449	M SAFETY N63-11716	04-16	CONSTRUCT ON STAR SPONSTON BY		LDING 14-20
NUCLEON-MESON CASCADE CALCULATION SHIELDING FOR HIGH ENERGY ELECTR			SYSTEM FOR NUCLEAR AUXILIARY POREACTOR SAFETY - SHIELDING NAA-SR-7432		

HOLTA

04-23

ACTOR

04-26

04-14

05-23

05-16

05-16

06-14

10

98-21

08-17

LS IN

08-16 GEL

08-21

11-28

11-32

11-28

12-10

S IN

13-16

DING

13-30

13-23

HEAT

13-13

13-28

NG

4-20

4-06

A

SHIELDING MANMALS AGAINST IONIZING RADIATION RADIATION EFFECT AND RADIATION PROTECTION IN RATS and MICE N63-17036 15-16 JPRS-20964 N63-20905 21-17 RADIATION PROTECTION - RADIATION EFFECT ON THIOPHOSPHATE OXIDIZING ENZYME SYSTEM IN RATS RADIATION PRECAUTIONS IN DEEP SPACE INSTRUMENTATION FACILITIES - RADIATION EFFECTS, N63-17037 15-16 CHECKS & PRECAUTIONS N63-21481 22-28 RADIATION PROTECTION - RADIATION EFFECT ON REDUCTASE ACTIVITY IN RATS N63-17039 RADIATION PROTECTION FOR SPACECRAFT - COSMIC RADIATION, ION BELT RADIATION, & NUCLEAR PROPULSION EFFECTS ON BIOLOGICAL SYSTEMS N63-21497 22-16 RADIATION PROTECTION - EFFECT OF CHEMICAL COMPOUNDS ON MICE EXPOSED TO LETHAL RADIATION DOSE
N63-17040 15-16 IONIZING RADIATION AT HIGH ALTITUDES AND RADIOLOGICAL SAFETY DURING SPACE FLIGHT - SPACE N63-21513 22-16 RADIATION PROTECTION - PHARMACOLOGY AND TOXICOLOGY IN PROTECTION FROM RADIATION DAMAGE - CYANIDE EFFECT ON LETHAL RADIATION DOSE IN MICE MECHANISM OF SHIELDING AGAINST WHOLE BODY PROTON IRRADIATION - SPACE BIOLOGY N63-21533 22-N63-17041 N63-21533 22-16 CMEMICAL COMPOUNDS USED IN PHARMACOLOGY AND TOXICOLOGY AS RADIATION PROTECTION AGENTS — EFFECT OF CHEMICALS ON LIFESPAN IN X-IRRADIATED MICE N63-17042 15-16 NEUTRON AND GAMMA RADIATION SHIELDING CALCULATIONS N63-22657 23-23 RADIATION HAZARDS TO MANNED SPACE FLIGHT -SHIELDING CONSIDERATIONS N63-23218 CHEMICAL COMPOUNDS USED IN RADIATION PROTECTION OF MICE - PHARMOCOLOGY AND TOXICOLOGY 24-28 RADIATION SHIELDING FOR MANNED SPACECRAF N63-23225 24-28 EFFECT OF GAMMA OR FAST NEUTRON RADIATION DOSES ON ANIMAL LIFESPAN - CHEMICAL COMPOUND PROTECTION IN PROTON IRRADIATED MICE N63-17044 15-16 DISTRIBUTION AND CHEMICAL FORMS OF GUANIDINE SULFIDES GIVEN ORALLY IN PROTECTIVE DOSES TO MICE SAM-TDR-62-150 M63-23612 24-16 GAMMA AND FAST NEUTRON RADIATION EFFECTS PATHOLOGY IN MICE GIVEN CHEMICAL COMPOUNDS FOR
RADIATION PROTECTION PRIOR TO PROTON IRRADIATION
N63-17045 15-16 RADIATION SICKNESS CF RADIOPATHOLOGY EFFECT OF INTESTINAL KICROORGANISMS ON RADIATION SICKNESS IN MICE GAMMA AND FAST NEUTRON RADIATION - TOXICITY OF RARE EARTH COMPOUNDS AND EFFECT ON MORTALITY FROM RADIATION EXPOSURE - RADIATION PROTECTION A Y20 (CT2YH - N63-11840 04-16 RADIATION SICKNESS - EFFECT OF BARBITURATES -EFFECT OF ACCELERATIONS AT MOMENT OF IRRADIATION M63-11702 C4-16 N63-17046 15-16 PROTECTION AGAINST SOLAR FLARE PROTONS N63-17171 15-28 RADIOLOGICAL PHYSICS RESEARCH - RADIOISOTOPE METABOLISM, QUANTUM YIELD OF LIQUID SCINTILLATORS, SHIELDING, FILM DOSIMETERS, RADON METEOROLOGY ACCELERATIONS CREATED AT MOMENT OF IRRADIATION
OF ANIMALS AND COURSE OF ACUTE RADIATION SICKNESS
N63-11950 04-16 N63-17305 15-01 ANL-6646 COSMIC RAY PRODUCTION OF MUONS AND NEUTRONS IN MASSIVE RADIATION SHIELDS - EFFECTS ON LOW ENERGY GAMMA RAY BACKGROUND RADIATION MEASUREMENTS ACUTE RADIATION SICKNESS - PATHONORPHOLOGICAL CHANGES IN THE EYE - PROTECTIVE EFFECT OF BETA MERCAPTOETHYLANINE N63-17308 THE PART OF N63-12011 05-16 JPRS-17222 UCLEAR RADIATION - BIOLOGICAL EFFECT AND EFFECTS OF HYPOTHERMIA ON SHOCK SYNDROME. AND ON BLOOD PROTEIN LEVELS OF IRRADIATED ANIMALS SHIELDING N63-18012 JPRS-17262 N63-12020 05-16 STRUCTURE SHIELDING AGAINST FALLOUT RADIATION FROM RADIATION MEDICINE - CHEMOTHERAPY, SKIN CHROMAXY AND VISUAL ANALYZERS, SPLEEN HOMOTRAMSPLANTATION, BLOOD AND BONE MARROW STUDY NUCLEAR WEAPONS NBS-NONDGRAPH-42 N63-18195 16-34 RADIATION EFFECT ON BIOLOGICAL SPECIMENS -RADIATION PROTECTION AID-996 N63-18217 TREATMENT OF RADIATION SICKNESS BY HOMO-TRANSPLANTATION OF FRESH AND PRESERVED SPLEEN N63-12397 06-16 N63-18217 17-16 SHIELDING REQUIREMENTS FOR PROMETHIUM SOURCES -RADIATION CONTRIBUTIONS AFTER REACTOR DISCHARGE EFFECT OF SOME PHARMACOPEIAL PREPARATIONS ON RADIATION SICKNESS 163-12398 NA3-12398 DA-14 EDUCATION AND TRAINING OF CIVIL DEFENSE TECHNICIAN - RADIATION PROTECTION PROBLEMS SCIENTIFIC CONFERENCE ON RECOVERY FROM RADIATION
INJURIES N63-12399 06-16 N63-18934 18-01 SPACE MEDICINE - LEUKEMIA, AMENIA AND RELATED HEMATOLOGICAL DISORDERS FROM ATOMIC RADIATION N63-18950 18-16 COSMIC RADIATION PROTECTION DURING SPACEFLIGHT N63-18935 18-28 PROTECTIVE ACTION OF RADIOPROTECTORS ON RADIOMIMETRIC EFFECTS OF OLEIC ACID EFFECTS OF RADIATION EXPOSURE ON ANIMALS + RADIATION SICKNESS STUDY - MEDICAL USE OF ATOMIC ENERGY & PHARMACOLOGICAL AGENTS OXIDATION PRODUCTS SHIELD GEOMETRY INFLUENCE ON AIR DOSE AND TISSUE DOSE FROM PROTONS IN SPACE VEHICLE NASA-CR-50780 SODIUM LACTATE FOR RADIATION SIGKNESS IN RABBITS
JPRS-20469 N63-19818 19-16

TISSUE ADSORPTIVITY CHANGE DURING ACUTE RADIATION

N63-19990 19-28

RADIATION SHIELDING OF MAN IN SPACE - AEROSPACE MEDICINE N63-20571 20-16

JPRS-20713		20-16	BODIES, PART I - CHEMICAL KINE CARDE-TM-627/61	TICS AND GASDY N63-10686	NAMICS 02-11
PROTECTIVE & THERAPEUTIVE AND DRUGS ON OUTCOME OF RADIATION JPRS-20520			SIMILARITY PARAMETERS IN RADIA ACES-62-8	TION GASDYNAMI N63-10878	CS 02-11
RADIATION SICKNESS - SYMPTOM WITH TYPES OF TREATMENT			RADIATION TRANSFER FROM A METAL CARBON DIOXIDE CRYODEPOSITS AT AEDC-TDR-62-165		1 2 4 3 2 5
NAS-NRC-1134	N63-20817	21-17			02-23
TETRACYCLINE ANTIBIOTIC EFF SICKNESS TREATMENT - ANTIBAC ORGANISMS-NONSPECIFIC DEFENS	TERIAL PROPERTI	DN ES AND	EQUATIONS OF RADIATION TRANSPO FLUIDS LAMS-2795		05-23
JPRS-21189	N63-22104	22-16	RADIATIVE TRANSFER THEORY AND	PREDICTIONS OF	
CARBOHYDRATE METABOLISM IN F RADIATION SICKNESS AFTER X-F FTD-TT-63-641/16264	NAT-23187	7E 24-16	RADIANT ENERGY SCATTERING AND I FUNCTIONS OF CHANDRASEKHAR	N63-13935	AND Y
ADIATION SOURCE			NONEQUILIBRIUM MOLECULAR GAS R	ADTATION - OAD	TATTUE
SYNCHROTRON RADIATION AS THE POLARIZED DECIMETER RADIATION		02-05	TRANSFER EQUATION SOLUTIONS IN COEFFICIENTS & PLANCK-LIKE ENEI TR62-209A	TERMS OF ABSO	RPTION
MEASUREMENT OF ARGON TRANSIT	TON USING THERM	H ARC	RADIATION ENERGY TRANSFER MECHA	ANTSHS OF CHEM	TCAL
PLASMA AS RADIATION SOURCE		04-07	SYSTEMS - CYCLOHEXANE		2 (1958
MEASUREMENT OF DECAY OF TRAF	PED-FLUX IN SUP	R-	TCREC-TR-62-90	N63-14532	10-23
CONDUCTING RING UNDER BOMBAF PARTICLES FROM POLONIUM-210	IDMENT OF ALPHA		MONTE CARLO SOLUTION OF RADIATE EQUATION		12683
LNF-62-85	N63-12574	06-23	UNC-5014, VOL. A	N63-15543	12-23
POSSIBLE CAUSALITY OF RADIAT OF PROJECTILE BY DECREASING HYDROCARBON ABLATORS		IN WAKE	LIMITATION OF MULTILAYERED RAD CONDUCTION AND RADIATION TRANS		
AE62-0814	N63-13969	09-30	INVARIANT IMBEDDING AND TIME-DI	EPENDENT SCATT	FRING
EFFECTS OF DIFFERENT TYPES A	ND INTENSITIES)F	OF LIGHT IN ONE-DIMENSIONAL MET TRANSFER	DIUM - RADIATI	ON
FRL-TN-90	N63-16929	14-16	RM-3603-ARPA	N63-16519	14-24
SOURCE & DETECTOR OF RADIATI MAYELENGTH RANGE FOR STUDY O ON MATERIALS IN VACUUM ULTRA	F RADIATION EFF		ENERGY TRANSFER IN DENSE PLASM TRANSPORT PROPERTY AND RADIATIO		AYER 18-24
WADD-TR-60-371 INTERPRETATION OF OBSERVED I	N63-19325		RADIATION TRANSFER REGIMES IN I	HYPERSONIC FLI N63-22060	GHT 22-02
DISCHARGE OF THE C-STELLARAT			RADIATIONLESS CONVERSION		
GAMMA RADIATION FLUX FROM DI SOURCE - DERIVING GEOMETRICA			RADIATIONLESS CONVERSION FROM 1 AFCRL-62-626	N63-14357	10-07
PWAC-397	N63-21667	22-23	RADIATIVE HEAT TRANSFER THERMAL RADIATIVE PROPERTIES OF	F SELECTED MAT	
ENVIRONMENTAL CONDITIONS SUB RADIATION SOURCES BY INDUSTR		E)-met)	INCLUDING TITANIUM ALLOYS, STATE SUPERALLOYS, REFRACTORY METALS		
BMI-1648	N63-22623	23-01	DMIC-177, VOL. 1		
GANNA PINHOLE CAMERA FOR LOC RADIATION SOURCES	ATING HIGH INTER	SITY	THERMAL RADIATIVE PROPERTIES OF DMIC-177, VOL. 2	SELECTED MAT	ERIALS 04-13
AECL-1801	N63-22766	23-15			
ADIATION SPECTRUM GEOMAGNETIC IMPLICATIONS OF	5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	IAL	RADIANT HEAT TRANSFER TO SIMULATION IN LUMAR ENVIRONMENT SIMULATION ORA-63-2	N CHAMBER N63-13418	08-13
VARIATION AND SPECTRUM NASA-CR-50733	N63-19946	19-28	NONLINEAR INTEGRAL EQUATIONS -	FUNCTION THEO	
RADIATION SPECTRUM GENERATED	BY HYPERSONIC		TECHNIQUES IN RADIATIVE HEAT TO KERNEL		
PROJECTILE CARDE-TN-1557/63	N63-19973	19-23	IMM-NYU-307	N63-13525	08-26
			THERMAL PROPERTIES OF HIGH TEMP MATERIALS - CONDUCTIVE AND RAD		
ULTRAVIOLET RADIATION SPECTR APPLICATIONS LAS-TR-199-37			THEORY AND TESTS	MENTARRO NEHA MO	
SEPARATION OF LINE AND CONTI		DINUME.	NONEQUILIBRIUM MOLECULAR GAS RA	100 7 7 100	
EMISSION AND ITS CALCULATION FOR NARROW SPECTRAL INTERVAL AFCRL-63-680	BY RADIATION DI	HENAKSK	TRANSFER EQUATION SOLUTIONS IN COEFFICIENTS & PLANCK-LIKE ENER TR62-209A	TERMS OF ABSO	RPTION ONS
		1999611	RADIANT HEAT TRANSFER IN ABSORE	THE CHITTING	AND
RADIATION TRANSFER ON RADIATIVE ENERGY TRANSFER ON			SCATTERING MEDIA	21,200gw-H1	S 1 X 090
VENUS ATMOSPHERE ARF-1200-3	N63-10142	01-29	ARL-63-3	N63-15102	11-13
RADIATION AND IGNIZATION PRO	BLEMS IN REENTRY	nurbeet a	RADIATIVE ENERGY TRANSFER ON EN VENUS - EMISSIVITY OF CARBON DI	TRY INTO HARS	AND
AP-91 SERVICE VASCALL COLUMN	N63-10237	01-28	ARF-A200-4	N63-15321	12-25
PREDICTION OF RADIATION FROM	HYPERSONIC BLUN	T-1009-17	TO DESCRIPTION OF THE DATE OF THE PORT OF THE PARTY OF TH	CM SHIFLDING O	17535

ICS -11

-11

-23 E -23 Y -20 IVE ION -23 L

-23 EAT -13 NG -24 R -24

-07 ALS -13 ALS -13 E

-20 DN FEA -19 (VE 10M -23

-29

HIGH TEMPERATURE COMPOSITE STRUCTURAL CONFIGURATIONS - RADIATIVE THERMAL PROTECTION SYSTEMS FOR 2500 TO 4500-DEG F N63-16058 13-34 RADIATIVE HEAT TRANSFER IN PLANETARY ATMOSPHERE	RADICAL SA PREE RADICAL BAND-HEAD WAVELENGTHS OF SOME RADICALS & THEIR TOWN FOR INTEPRETING ULTRAVIOLET SPECTRA OF DAYGLOW, TWILIGHT & AURORAE OF EARTH, MARS & VENUS NO3-13170 07-05
WITH IMPERFECT SCATTERING R-143-PR N63-17664 16-05	ELECTRON TRANSFER REACTIONS AND FORMATION OF POLYRADICAL ANIONS
ROCKET HEAT TRANSFER MEASUREMENT - SLUG MASS CALORIMETER - CONVECTION AND RADIANT HEAT RATES AEDC-TOR-63-93 N63-18257 17-13	RADICAL CONCENTRATIONS AND REACTIONS IN NETHANE-
POWER TRANSISTOR COOLING IN SPACE ENVIRONMENT WITH HEAT SINK RADIATION AND CONDUCTION AS MODE OF HEAT TRANSFER NASA-TH-D-1753 N63-18459 17-09	OXYGEN FLAME N63-18556 17-26 REVERSIBLE CHEMICAL REACTIONS OF HYDROXYL RADICALS WITH HYDROXYL IONS, HYDROGEN MOLECULES, AND OXYGEN AND HYDROGEN IONS N63-18562 17-07
RATE AND RADIATIVE HEAT TRANSFER PROCESSES DURING FLOW IN DE LAVAL NOZZLES N63-18571 17-07	HIGH FREQUENCY PROPAGATION SIMULATION
ABSORPTION COEFFICIENT AND OPTICAL THICKNESS OF MEDIUMS FOR ENERGY AND HEAT TRANSFER BY RADIATION IN NUCLEAR ROCKET ENGINES N63-18927 18-23	RADC-TOR-62-673 M63-10552 01-12 BIBLIOGRAPHY ON RADIO DIRECTION FINDING AND RELATED IONOSPHERIC PROPAGATION TOPICS NBS-TN-127 N63-11032 03-08
SEASONAL VARIATION IN HEAT BALANCE OF ATMOSPHERE OF MORTHERN HEMISPHERE - RADIATION AND CLIMATOLOGY N63-19387 18-21	RADIO ENGINEERING - EDUCATION N63-11520 03-09
EFFECT OF RADIATIVE HEAT TRANSFER AND CHEMICAL REACTION ON HEAT TRANSFER RATE TO A SPACE VEHICLE DURING HYPERSONIC FLOW CONDITIONS	RADIO ASTRONOMY - RADIO TELESCOPE, RADIO EMISSION, RADIO INTERFEROMETER JPRS-16917 N63-11545 04-05
REAT TRANSFER BY RADIATION OF AN OGIVE AND BOUNDARY LAYER ENERGY EMISSION OF METALS AGAND-211 N63-21549 22-13	TRIPARTITE RADIO INTERFEROMETER FOR OBSERVING ECLIPSE OF CRAB NEBULA BY SUPERCOROMA OF THE SUN N63-11549 D9-05
RADIANT HEAT TRANSFER TO FLOWING GAS WITH CONDUCTION & ABSORPTION N63-22312 23-13	TIME CONSTANT FOR RADIO INTERFEROMETER NAS-11550 04-05
RADIATIVE HEAT TRANSFER IN ATMOSPHERE	RADIO REFRACTIVE INDEX, SURVEY OF METHODS - RADIOSOMDES, REFRACTOMETERS & TEMPERATURE, PRESSURE & AIR DEMSITY
APPROXIMATE SOLUTION FOR RADIATIVE HEAT TRANSFER - ANISOTROPIC SCATTER N63-23337 24-12 RADIATIVE RECONBINATION	PRESSURE & AIR DEMSITY NBS-TN-99 RADIO-FREQUENCY INTERFERENCE IN RADIAC-TELEMETRY SYSTEMS - QUALITATIVE STUDY USNRDL-TR-544 N63-12083 05-08
RADIATIVE RECOMBINATION OF CESSUM IGNS IN PLASMA TCREC-TR-62-82 N63-12933 07-24	Z-NODE SPACE RADIO PROGRAM AFCRL-62-1059 N63-12146 05-05
BADIATOR SA SPACE RADIATOR HEAT TRANSFER CHARACTERISTICS OF RADIATOR FINNED— TUBE CONFIGURATIONS NASA-TN-0-1435 N63-10173 01-13	PROTON DAMAGE, ATMOSPHERIC CONTAMINATION, CHEMISTRY, ELECTRICITY, MECHANICS, METALLURGY AND CERAMICS, RADIO, SOLID STATE PHYSICS, AND SOUND M63-12416 06-01
ANALYSIS OF A MEGAMATT LEVEL DIRECT CONDENSER- RADIATOR FOR SPACE POWER SYSTEM ARS PAPER-2545-62 N63-10266 01-06	HYPERFINE STRUCTURES AND HUCLEAR MAGNETIC MOMENTS BY ATOMIC-BEAM RADIO FREQUENCY SPECTROSCOPY UCRL-10321 N63-12939 07-23
TABLES OF BLACK-BODY RADIATION GIVING SPECTRAL RADIANT INTENSITY OF BLACK-BODY RADIATOR	RADIO TRACKING OF MARINER 11 AND 175 SCIENTIFIC INPLICATIONS 07-08
AE62-0862 N63-10668 02-28 DESIGN OF A PULSED MASS RADIATOR FOR USE AS A SPECTROSCOPIC RADIATION SOURCE	BIBLIOGRAPHY - RADIO TELEMETRY TO SURVIVE HIGH ACCELERATIONS AEDC-TDR-63-36 P7-08
N63-10899 02-23	RADIO ALTIMETEA EQUIPMENT CHARACTERISTIC N63-13340 08-08
RADIATOR REFLECTOR AND NOS-11209 03-13	SPACE COMMUNICATION - PROPAGATION AND NOISE IN RADIO-MAYE SPECTRUM - TELEMETRY TRANSMISSION
PARAMETRIC CHARACTERISTICS OF CYLINDRICAL RADIATORS LAMS-2793 1600 N63-11984 05-13	INTERPERENCE REDUCTION N63-13856 09-00 APPROXIMATE SOLUTION OF THE RADIO FIELD STRENGTH IN THE VICINITY OF A GROVE OF TREES
SPACE RADIATOR STUDY - CONDENSER-RADIATORS FOR RANKINE CYCLE SPACECRAFT POMERPLANTS ER-4544 N63-12200 05-06	AFCRL-63-23 N63-14199 00-00
HIGH TEMPERATURE LIQUID METAL MEAT TRANSFER - COMPONENTS FOR SMAP 2 LIQUID COOLED REACTOR, PUMP, MEATER, FLOW TRIMMER, RADIATOR-CONDENSER	DVL-256 N63-14641 10-00 NAVY PROGRAM IN RADIO ASTRONOMY - PLAMETARY RADIATION, RADIO STARS, MASER DEVELOPMENT, RADIO
N63-15020 11-13	RECEIVER TECHNOLOGY N63-14737 11-05

LONG RANGE MAVIGATION - VERY LOW FREQUENCY RADIO SYSTEMS, SATELLITE MAVIGATION SYSTEMS, MAGMETIC COMPASSES, IMERTIAL MAVIGATION AND GYROSCOPES

CARBIDE CATHODES FOR THERMIONIC EMITTERS AND RADIATORS FOR SPACE APPLICATION NASA-CR-51030 N63-21485 22-09

N63-14803 11-22	DOPPLER EFFECT MEASUREMENTS N63-21673 22-09
LONG RANGE NAVIGATION SYSTEMS - VERY LOW FREQUENCY RADIO, INERTIAL, AND SATELLITE NAVIGATION SYSTEMS No.3-14804 11-22	RADIO FREQUENCY INTERFERENCE FROM HIGH POWER
40-40 GATE1-698	RADC-TDR-63-287 N63-21677 22-09
ELECTRON COLLISION PROPORTIONAL TO ENERGY IN RADIO WAVE REFLECTION & TRANSMISSION N63-14864 11-24	TRANSMISSION & INTERACTION AT THREE OSCILLATING FREQUENCIES
X-BAND TELEMETERING FOR RADIO INTERFERENCE -	TR-134 N63-22370 23-09
REENTRY COMMUNICATION IN EARTH ORBIT REENTRY VEHICLE	INTERRELATIONSHIP OF OPTICS AND RADIO ENGINEERING IN ASTRONOMY FTO-1T-62-1465/15264 N63-23632 24-05
STEDIGUS - LESCHOLN - ST. NOT COURS TO THE STREET STATE STAT	CONSTRUCTION TO THE CONTRACT OF THE PROPERTY OF THE CONTRACT O
APPLICATION OF ELECTROMAGNETIC ABSORBERS FOR REDUCTION OF RADIO-FREQUENCY INTERFERENCE - SIDE-LOBE REDUCTION	PHYSICS OF THE SOLAR SYSTEM N63-10220 01-05
RADC-TDR-63-7 N63-15098 11-08	SOLAR RADIO ASTRONOMY - SOLAR FLARES & ATMOSPHERES N63-10222 01-05
GEOLOGY AND GEOPHYSICS APPLIED TO RADIO PROPAGATION THROUGH ROCK STRATIFICATION OF EARTHS	LUNAR THERMAL EMISSION MEASUREMENTS - RADIO
CRUST AFCRL-63-40 N63-15106 11-08	ASTRONOMY AFCRL-62-882 N63-10296 01-05
RADIO PHYSICS, PLASMA PHYSICS, COMMUNICATION SCIENCES AND ENGINEERING M63-15811 13-01	GALAXIES AND THEIR RADIO EMISSIONS BNL-710/T-247/ 02-05
RADIO PHYSICS - RADIO PROPAGATION, PLASMA PHYSICS, COMMUNICATIONS, SURVEILLANCE, AND ANTENNAS AFESD-TOR-62-116 N63-15973 13-08	RADIO AND RADAR ASTRONOMY, TRACKING AND DATA ACQUISITION - CONGRESSIONAL HEARINGS N63-10862 02-05
REDUCTION OF SPURIOUS OUTPUT SIGNALS IN HIGH POWER KLYSTRONS - RADIOFREQUENCY INTERFERENCE IN	OPTICS OF MILLIMETER WAVES AND RADIO ASTROMOMY JPRS-16686 N63-11186 03-23
MICROMAYE TUBES EE-540 N63-16021 13-09	RADIO MEASUREMENTS OF TWO TOTAL SOLAR ECLIPSES AFCRL-62-852 N63-11196 03-05
MICROSCALE VARIATIONS IN RADIO REFRACTIVE INDEX OF ATMOSPHERE - REFRACTOMETER MEASUREMENT OF TURBULENT STRUCTURE WITHIN HEIGHT PROFILE	SOVIET STUDIES IN RADIO ASTRONOMY JPRS-16786 N63-11205 03-03
AFCRL-63-71 N63-16242 13-21 RADIO DOPPLER DETECTORS N63-17510 16-09	SPECTRUM OF RADIO EMISSION FROM DISCRETE SOURCE CASSIOPIA-A LOW FREQUENCIES N63-11524 03-05
UNDERGROUND RADIO COMMUNICATIONS THROUGH DEEP ROCK	RADIO ASTRONOMY - RADIO TELESCOPE. RADIO EMISSION.
STRATA AFCRL-63-60 N63-17589 16-08	RADIO INTERFEROMETER JPRS-16917 N63-11545 04-05
RADIO FREQUENCY INTERFERENCE AND ENVIRONMENTAL TESTING OF A MINIATURE SOLID STATE POWER SUPPLY NASA-CR-50392 N63-18457 17-06	RADIO ASTRONOMICAL METHOD FOR CALIBRATION OF SMALL ANTENNAS AT CENTIMETER WAVELENGTH N63-11546 - 04-05
TUNING RANGE AND CONSTANT BANDWIDTH OF R. F. PRESELECTOR FILTERS DEVELOPED FOR AN/TRC-56 RADIO RECEIVER UNIT	PANEL ON SCIENCE & TECHNOLOGY - ROCKET ENGINES, RADIO ASTRONOMY, GEODETIC SATELLITES - CONGRESSIONAL HEARINGS N63-11723 04-01
RADC-TOR-63-221 N63-18646 17-09	ATMOSPHERIC EFFECTS ON RADIO ASTRONOMICAL SIGNALS-
RADIO STAR SCINTILLATIONS AND SPREAD-F ECHOES OVER SOLAR CYCLE - OBSERVATIONS OF CASSIOPEIA A M63-19098 18-05	ANALYSIS OF ANTENNA TEMPERATURES DURING THUNDERSTORMS AFCH62-311 N63-12028 05-12
LIGHTING EQUIPMENT FOR TELEVISION AND RADIO	RADIO & RADAR ASTRONOMY - SUGAR GROVE FACILITY.
ANTENNA TOWERS - MARGINAL VISUAL FLIGHT RULES WEATHER N63-19935 19-22	RADIOFREQUENCY ASSIGNMENT AND NATIONAL SOLAR OBSERVATORY PROPOSAL — CONGRESSIONAL HEARINGS N63-12291 05-01
DERIVATION OF PHYSICAL CONSTANTS FROM RADIO TRACKING OF MARINER II – PLANETARY MASSES AND ASTRONOMICAL UNITS	RADIO LOCATION OF PLANET VENUS BY SOVIET UNION - APRIL 1961 N63-13022 07-05
AIAA PAPER-63-424 R63-20498 20-32	PHYSICS, SOLID STATE DEVICES, MASERS, RADIO-
OOPPLER RADAR TRACKING FOR TRAJECTORY OF NIKE-CAJUN ROCKET NSRC-4 NSC-4	ASTRONOMY, AND CRYDGENIC APPLICATIONS OF MICROMAVE TECHNIQUES N63-13094 07-23
NSRC-4 N63-20730 21-08 CALCULATION OF ELECTRON DENSITY PROFILES - DATA	RADIO EMISSIONS AND MAGNETIC FIELD STRENGTH OF
CONVERSION OF TOPSIDE RADIO WAVE REFRACTION RECORDS FROM GROUND-BASED IONOSONDES	JUPITER AFCRL-62-721 M63-13740 08-29
N63-21004 21-12	ANNOTATED BIBLIOGRAPHY OF NATURAL RADIO EMISSION FROM ASTRONOMICAL SOURCES - VOLUME FOR 1961
SOLIO STATE DE TO DE CONVERTER AND RADIO INTERFERENCE FILTER GD/C-63-179 N63-21296 21-09	NAVY PROGRAM - RADIO ASTRONOMY - FRACTURE SAFE
CONTRACTOR - AMONDALS OF OTHER MILETINGS ALVE.	DESIGN OF STEEL STRUCTURE - PROGRESS REPORT
WEST FORD PROJECT FOR BELTS OF COPPER DIPOLES IN SPACE FOR RADIO SIGNAL PROPAGATION JPRS-21142 N63-21384 22-32	N63-14736 11-05
SHORT WAVE RADIO PROPAGATION - NARROW BANG GAIN.	RADIATION, RADIO STARS, MASER DEVELOPMENT, RADIO
SHORT WAVE RADIO PROPAGATION - MARROW BAND GAIN, STABLE RECEIVER DEVELOPMENT AND IONOSPHERIC	RECEIVER TECHNOLOGY 103-77 N63-14737 11-05

2-09 6 3-01 ING 4-05 1-05 ERES 1-05

-05 2-05

-05 -23 -05 -05 -05 ÖN, -05 ALL -05

-01 LS--12

-01 -05

-23

-29 . -05

-05

-05

RADIO ASTRONOMY - SOLAR RADIO WAVE, UPPER ATMOSPHERE RADIO OBSERVATION, AND RADIO EQUIPMENT	TRANSMITTER AND RECEIVER N63-16900 14-08
AFCRL-63-224 N63-15217 11-05	PLASHA WAVE EXCITATION BY LINE CURRENT MAGNETIC
PROPOSED UNITED STATES PROGRAM FOR INTERNATIONAL QUIET SUN YEARS /1QSY/ - GEOPHYSICS, RADIO ASTRONOMY, AND METEOROLOGY N63-15672 13-01	INDUCTION - RADIO COMMUNICATION WITH MISSILES AND SPACE VEHICLES AD-283830
RADIOASTRONONY - RADIO OBSERVATION OF THE SUN AFCRL-63-498 N63-16505 14-12	SPACE COMMUNICATIONS - RADIO, LASERS, AND MASERS JPL-TM-33-05
SPACE SCIENCE - PERFECTING THE COMMUNICATIONS SYSTEM - INTERNATIONAL COOPERATION AND RADIO ASTRONOMY N63-17053 15-08	HONUMIFORM TRANSHISSION LINE THEORY - RADIO COMMUNICATION AID-T-63-96 19-08
RADIO ASTRONOMICAL STUDIES - SOLAR FLUX, IONOSPHERE ELECTRON DENSITY, TROPOSPHERE	NOMUNIFORM TRANSMISSION LINE THEORY - RADIO COMMUNICATION
SCINTILLATION AFCRL-63-464 N63-19191 18-05	AIRBORNE RADIO RELAY COMMUNICATION SYSTEM RADC-TDR-63-278 N63-19927 N63-19927 19-08
RADIO ELECTRONICS FOR SPACE COMMUNICATIONS AND RADIO ASTRONOMY IN THE SOVIET UNION JPRS-20508 19-08	IONOSPHERE - ELECTRON DENSITIES IN D-, E-, AND F- LAYERS RELATED TO RADIO COMMUNICATION - USE OF RADAR AND TOPSOUNDING SATELLITE MEASUREMENTS.
DESIGN AND CONSTRUCTION OF LARGE STEERABLE PARABOLIC ANTENNAS FOR RADIO AND RADAR ASTRONOMY AFCRL-63-677 N63-22190 23-08	RADIO CONTROL CATA POR MATE AN ANA POR MATERIA POR MAT
GEOPHYSICS - RADIO ASTRONOMY, RADIO HYDROGEN AND CONTINUUM RADIATION OBSERVATIONS, EARTH CRUST	FROM THE EARTH STANDARD CHARACTER ADDITION THE EARTH STANDARD CHARACTER AND A M63-18922 STANDARD CHARACTER ADDITIONAL PROPERTY OF THE PROPERTY
STUDIES AND RADIOACTIVE DATING N63-23540 24-12	RADIO-CONTROLLED MODEL DEPLOYMENT, DYNAMIC STABILITY, AND CONTROL CHARACTERISTICS OF PARAMING-ROCKET BOOSTER MODEL USING RADIO-CONTROL FREE-FLIGHT TECHNIQUE NASA-TH-D-1932 N63-19607 19-31
RADIO-ATTENUATION MEASUREMENT /RAM A1/ TEST, FOUR- STAGE SOLID-PROPELLANT ROCKET VEHICLE	MASA-TH-D-1932 N63-19607 19-31 RADIO DIRECTION FINDER
PERFORMANCE AND DESIGN NASA-TN-D-1611 N63-13548 08-31 REFRACTION CORRECTION OF SHORT NAVIGATIONAL	ESTIMATION OF VARIANCES FOR RADIO DIRECTION FINDING EQUIPMENT N63-10415 01-08
DISTANCES BY MEASURING ATTENUATION RAC-1163 N63-13747 08-12	RADIO ECHO ASTRONOMY AND PHYSICS OF METEORS - RADIO ECHO OBSERVATIONS AND SATELLITE MEASUREMENTS N63-16627 14-01
S POLAR RADIO BLACKOUT	METEOR TRAILS - IONIZATION AND RADIO ECHO.
ELECTROMAGNETIC RADIATION FROM PLASMA OSCILLATIONS	OBSERVATION N63-16630 14-05
AND NARROW-BAND RADIO BURSTS FROM THE SUN N63-10211 01-05	METEGR MASS DISTRIBUTION MEASUREMENTS BY RADIO M63-16632 14-05
TYPE III SOLAR RADIO NOISE - FREQUENCY POLARIZATION AND DRIFT RATE	RADAR SYSTEM - RADIO ECHO OBSERVATION OF METEORS N63-16634 14-05
BN-290 N63-12077 05-05 TYPE IV SOLAR RADIO NOISE	METEORS - RADIO ECHO OBSERVATION IN INTERNATIONAL GEOPHYSICAL YEAR NG3-16635 14-05
BN-291 NOISE STORMS, SOLAR FLARES, AND TYPE V BURSTS	ORBITS OF METEOR STREAMS DETERMINED BY RADIO-ECHO TECHNIQUES 16-05
AFCRL-62-1066 and 32 and 20M035201 N63-12120 05-28	IONOSPHERE DATA FOR JAM 1962 FROM MODMERA, SOUTH AUSTRALIA - RADIO ECHO DATA M63-17032 15-12
SPECTRAL OBSERVATIONS OF SOLAR RADIO BURSTS - CONTINUUM BURSTS - N63-12121 05-28	RADIO STAR SCINTILLATIONS AND SPREAD-F ECHDES OVER
SUNSPOT RELATION TO GEOMAGNETISM, FLARES AND SOLAR PROTON EFFECT M63-15358 12-28	SOLAR CYCLE - OBSERVATIONS OF CASSIDELA A 18-09 N63-19098 18-09
SPECTRAL ANALYSIS OF SOLAR RADIO BURSTS IN DECAMETER RANGE NASA-CR-51033 N63-21254 21-28	RADIO ECHO DESERVATION RADIO ASTRONOMY - SOLAR RADIO MAYÉ, UPPER ATMOSPHERE RADIO DESERVATION, AND RADIO EQUIPMENT AFCRL-63-224 N63-15217 11-05
SOLAR RADIO BURSTS OF TYPE IV, GEOMAGNETIC STORMS, AND POLAR CAP ABSORPTION EVENTS	OBSERVATION IN HETEOR TRAILS - RADIO ECHO OBSERVATION M63-16629 14-09
ADIO COMMUNICATION INTERNATIONAL DATA LINK FOR MILITARY AIRCRAFT	RADIO EMISSION GALAXIES AND THEIR RADIO EMISSIONS BNL-710/T-247/ 92-0:
INTERNATIONAL DATA LINK SYSTEM, GROUND ENVIRONMENT	SOVIET PAPERS ON RADIOPHYSICS JPRS-15517
FOR AIR TRAFFIC CONTROL M63-13365 08-08 BACKSCATTER WAVE PROPAGATION IN RADIO	SPECTAUM OF MADIO EMISSION FROM DISCRETE SOURCE CASSIOPIA-A LOW FREQUENCIES N63-11524 03-0
COMMUNICATION AFCAL-63-101 M63-16371 . 14-08	PLASMA CLOUD IN HOTION AS RADIO EMITTING SATELLIT OF THE SUN 03-0
RADIO COMMUNICATION DIPOLE ANTENNA - POWER ABSORPTION AND LOSS DUE TO GROUND PROXIMITY AT	RADIO EMISSION OF SUN ON A 1.8-HN MAVELENGTH

PROPAGATIONAL PHASE VARIATION MEASUREMENT OF RADIO EMISSION FROM THE HOOM ON 9.6-CM WAVELENGTH M63-11534 03-05 RADIO ASTRONOMY - RADIO TELESCOPE, RADIO EMISSION, INDUCTION HEATING TO SIMULATE AERODYNAM)	ARINGS 291 05-01 0
JPRS-15740 N63-11530 EFFECT OF INTERNAL FLOW OF HEAT OF MOON ON ITS RADIO ENISSION PRECISION MEASUREMENT OF RADIO EMISSION FROM THE MOON ON 9.6-CM WAVELENGTH RADIO ASTRONOMY - RADIO TELESCOPE, RADIO EMISSION, RADIO INTERFEROMETER JPRS-16917 RADIO EMISSION OF MOON ON 3-2 WAVELENGTH N63-11551 N63-1250 RADIO EMISSION FREQUENCY EMERCY FIRINGS ON BRIDGE SQUIBS FOR MISSILE RADAR SYSTEMS RK-TR-63-1 PROPAGATIONAL PHASE VARIATION MEASUREMENT LOW FREQUENCY EMERCY FIRINGS ON BRIDGE RK-TR-63-1 N63-1250 N63-1250 INDUCTION HEATING TO SIMULATE AERODYNAMI WADC-TR-59-523, PT. III N63-1350 OXYGEN-WATER VAPOR MIXTURES UNDER RF EXCENSIVE ELECTRON-PARAMAGNETIC RESONANCE TECHNIQUE AOMC-RR-TR-62-3 N63-1450	956 07-26 NYS AT VERY 694 08-08 IC HEATING 960 09-23 CITATION BY UES 516 10-01 FECTS OF GNEYIC 858 11-08
EFFECT OF INTERNAL FLOW OF HEAT OF MOON ON ITS RADIO EMISSION PRECISION MEASUREMENT OF RADIO EMISSION FROM THE MOON ON 9.6-CM WAYELENGTH N63-11534 O3-05 PROPAGATIONAL PHASE VARIATION MEASUREMEN LOW FREQUENCIES AFCRL-63-44 N63-134 IMDUCTION HEATING TO SIMULATE AERODYNAM MADC-TR-59-523, PT. III N63-134 OXYGEN-WATER VAPOR MIXTURES UNDER RF EXC ELECTRON-PARAMAGNETIC RESONANCE TECHNIQUE AGMC-RR-TR-62-3 N63-145	NTS AT VERY 694 OB-00 IC HEATING 99-00 O9-23 CITATION BY JUES 516 10-07 FECTS OF GNEYIC 858 11-08
PRECISION MEASUREMENT OF RADIO EMISSION FROM THE MOON ON 9.6-CM WAYELENGTH M63-11534 03-05 RADIO ASTRONOMY - RADIO TELESCOPE, RADIO EMISSION, RADIO INTERFERDMETER JPRS-16917 RADIO EMISSION OF MOON ON 3-2 WAVELENGTH M63-11551 04-05 M63-1459	594 08-00 IC HEATING 960 09-23 CITATION BY UES 516 10-07 FECTS OF ENERYIC 858 11-08
RADIO ASTRONOMY - RADIO TELESCOPE, RADIO EHISSION, RADIO INTERFEROMETER JPRS-16917 RADIO EMISSION OF MOON ON 3-2 WAVELENGTH M63-11551 M63-11551 M63-1450 M63-145	IC HEATING 960 09-23 CITATION BY UES 516 10-07 FECTS OF GNETIC 858 11-08
RADIO INTERFEROMETER JPRS-16917 RADIO EMISSION OF MOON ON 3-2 WAVELENGTH M63-11551 M63-1251 MADC-TR-59-523, PT. III M63-135 OXYGEN-MATER VAPOR MIXTURES UNDER RF EXC ELECTRON-PARAMAGNETIC RESONANCE TECHNIQU AONC-RR-TR-62-3 M63-145	960 09-23 CITATION BY UES 516 10-07 FECTS OF GNETIC B58 11-08
RADIO EMISSION OF MOON ON 3-2 WAVELENGTH M63-11551 04-05 RECTRON-PARAMAGNETIC RESONANCE TECHNIQUE M63-145	DES 516 10-07 FECTS OF GNETIC 858 11-08
	SNETIC 11-01
RADIO TELESCOPE M63-11554 04-05 IONOSPHERE ON RADIO FREQUENCY ELECTROMAC	
SOLAR COSMIC RAY EVENT - SEPTEMBER 26, 1960 AFCRL-63-4 N63-144 NASA-TN-D-1675 N63-12064 05-28	FOR
ROLE OF TURBULENCE IN STAR FORMATION IN ELLIPTICAL GALAXIES ROLE OF TURBULENCE IN STAR FORMATION IN REDUCTION OF RADIO—FREQUENCY INTERFERENCE SIDE—LOBE REDUCTION	E JAJAS
RADIO EMISSIONS AND MAGNETIC FIELD STRENGTH OF	15.114.195-32
JUPITER ELECTRON SYNCHROTROM, CRYGGENICS, RADIO- AFCRL-62-721 N63-1374D 08-29 ELECTRONICS, MAGNETISM, COMPUTER, AND EL POSITRON STORAGE RING EXPERIMENTS	LECTRON AND
ANNOTATED BIBLIOGRAPHY OF NATURAL RADIO EMISSION LNF-63/11 N63-155 FROM ASTRONOMICAL SOURCES - VOLUME FOR 1961 N63-14290 10-05 DYNAMIC STABILIZATION OF PLASMA COLUMN E	METTA TERMINE
RADIO WAVE EMISSION FROM SOLAR FLARES TO TOR-930/2210-02/TM-1 N63-150	
N63-20683 20-28 RADIO FREQUENCY CURRENT DISTRIBUTIONS IN BRILLOUIN BEAM - MICROWAVE TUBES	-RT-ASAR TO
RADIO TECHNICAL COMMISSION FOR AERONAUTICS, FALL EE-546 N63-160	STEEDAN TO
M63-13356 08-01 CIRCUIT TO CANCEL FIRST-ORDER DOPPLER FF	HPA, NO. SOMEONES
GROUND STATIONS, CHANNEL SPACING, INTERFERENCE, HARMONICS N63-13728 08-08	
RADIO COMMAND CONTROL EQUIPMENT CATALOG - RECEIVERS, DECODERS, AND POWER SUPPLY - VOL 111 IRIG-105-59 RADIO FREQUENCY BLACKOUT PHENOMENA ON RE BIBLIOGRAPHY SB-62-18 N63-165	
EXPERIMENT LUXEMBOURG II - CRYSTAL CONTROLLED VERY HIGH PREQUENCY PULSE TRANSMITTER FOR WAVE COMPUTER SIMULATION OF NOI HIGH PREQUENCY PULSE TRANSMITTER FOR WAVE COMPUTER SIMULATION FOR RADIO FREQUENCY BACKSCATTER - COMPUTER SIMULATION FOR RADIO FREQUENCY BACKSC	
INTERACTION EXPERIMENT CAL-VC-1609-P-1 N63-14238 10-08 RADIOFREQUENCY FIELD - ELECTRON MOTION RM-3364-PR N63-16	022 16-24
RADIO ASTRONOMY - SOLAR RADIO WAVE, UPPER ATHOSPHERE RADIO OBSERVATION, AND RADIO EQUIPMENT AFCRL-63-224 N63-15217 11-05 ULTRAHIGH FREQUENCY POWER AMPLIFIER TUBE CATHODE EMISSION AND MAXIMUM RADIO FREQUENCY	ES - PEAK
TECHNOLOGY OF PRODUCTION OF RADIO-ELECTRONIC RADIC-RAL-TH-63-8 M63-183	376 17-09
JPRS-21222 N63-22105 22-09 RADIO-FREQUENCY MASS SPECTROMETER MEASUR	EMENTS OF
RADIO FREQUENCY TAS THE CHOTTAY THE CONTROL OF THE	
CF MIGH FREQUENCY CF LOW FREQUENCY RADIO FREQUENCY TRANSMISSION THROUGH A PLASMA RADC-TDR-63-265 N63-181	
GENERATED IN NOSE REGION OF HIGH VELOCITY GROUND- TO-AIR MISSILE N63-10687 02-08 RADIO FREQUENCY IMPEDANCE PROBE MEASUREM	597HRASTERINTE
MOLECULAR-BEAM ELECTRIC-RESONANCE SPECTROMETER AND RADIO FREQUENCY SPECTRA OF LITHIUM FLUORIDE N63-190	688 19-12
UCRL-10402 N63-10872 02-07 SOLID STATE TRANSMITTING, RECEIVING, AND FREQUENCY SWITCHING N63-201	
TRANSEQUATORIAL PROPAGATION ANALYSIS - IONOSPHERIC HEIGHT AND FREQUENCY PLOTS AFCRL-62-345 N63-11893 O4-12 PASS, & BAND STOP FILTERS ON RADIO TRANS RADC-TOR-63-302 N63-204	PASS, BAND SMITTERS
TYPE III SOLAR RADIO NOISE - FREQUENCY POLARIZATION AND DRIFT RATE NN-290 N63-12077 05-05 GENERATING DEVICES	REQUENCY
RADIO-FREQUENCY INTERFERENCE IN RADIAC-TELEMETRY SYSTEMS - QUALITATIVE STUDY RADIO-FREQUENCY WINDOW STUDY HIGH POWER RADIO FREQUENCY WINDOW STUDY	SINCHHOO -
USNRDL-TR-544 N63-12083 O5-08 COMPUTER TO SOLVE MAVEGUIDE PROBLEMS RADC-TOR-63-349 RADIO & RADAR ASTRONOMY - SUGAR GROVE FACILITY,	

97-26 VERY 98-08

1MG 19-23 IM BY

0-07 IF 1-04

1-08 NCY AND

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1-09 1-09 1-08

-24 K -09 OF

-09

-12 -09

-09

09

	LINEAR-BEAM MICROMAVE TUBE - EFF IMPROVEMENT OF KLYSTRON BY CIRCU FREQUENCY POWER INTO OUTPUT GAP	ICIENCY LATION OF RAD	10
		N63-21633	22-23
1	DIRECT CURRENT SCALLOP EFFECT ON MODULATION IMPARTED TO OTHERWISE ELECTRON BEAM	RADIO FREQUE PERFECT BRIG N63-21636	22-23
	ELECTRON BEAM AND RADIO FREQUENCE INTERACTION IN A RING-ROD RESONA		22-23
	RADIO FREQUENCY INTERACTION PROP STRUCTURE SUITABLE FOR COLD-CATH MAGNETRONS	PERTIES OF AND	ODE.
	IER SER. 60, ISSUE 455	N63-22041	22-09
	STRUCTURAL RADIO FREQUENCY INTER		
	RADC-TDR-63-58	INDUSTRIBLE IN	23-08
	RADIO-FREQUENCY POWER GENERATOR HEATING SUPERSONIC GAS FLOWS	DESIGNED FOR N63-23100	24-09
	CONTROL OF RADIO & RADAR INTERFE ASSIGNMENT OF OPERATING FREQUENC RESEARCH	IES - OPERATI	IONS
	11T-R1-5177-FR	N63-23131	24-08
	RADIOFREQUENCY SYSTEM FOR HIGH E ACCELERATOR		
	LNF-63/53	N63-23197	24-08
	BIOLOGICAL ACTION OF RADIOFREQUE ELECTROMAGNETIC FIELDS	N63-23563	AND 24-16
u	NDIO METEOROLOGY SYNOPTIC RADIO METEOROLOGY NBS-TN-98	N63-11631	04-21
u	ADIO NOISE		
	OBSERVATION OF CORRELATION BETWEE		01-12
	RADIO NOISE MEASUREMENTS - MARCH NBS-TN-18-14	N63-11047	03-08
	OPTIMUM DETECTOR FOR FREQUENCY S TRANSMISSION THROUGH A RAYLEIGH RADC-TOR-62-554		EL 03-08
	VERY LOW FREQUENCY RADIO NOISE AFCRL-62-1140	N63-11694	
	FREQUENCY MODULATION RECEIVER NO	OK TARREST EVE	
	PIBMRI-1041-62	N63-11913	04-08
	TYPE III SOLAR RADIO NOISE - FRE	EQUENCY	
	BN-290	N63-12077	05-05
	TYPE IV SOLAR RADIO NOISE	N63-12078	05-05
	NOISE STORMS, SOLAR FLARES, AND AFCRL-62-1066		S
	SPACE COMMUNICATION - PROPAGATION RADIO-WAVE SPECTRUM - TELEMETRY INTERFERENCE REDUCTION	ON AND MOISE TRANSMISSION -N63-13858	
	ATMOSPHERIC RADIO HOLSE, JUNE TO NBS-TN-18-15	0 AUGUST, 196 N63-14853	2
	DATA ON ATMOSPHERICS, RADIO NOIS	SE, WHISTLERS N63-15256	, AND 12-08
	TELECOMMUNICATIONS RESEARCH - R. IONOSPHERIC ABSORPTION, WEATHER NOISE, AND SPACE TRACKING - SOU CSIR-T-26	RADAR, LF RA TH AFRICA	010
	The state of the s	NAMES OF TAXABLE PARTY.	0.8112
	1962 - EARTH CURRENT, IONOSPHER COSMIC RADIO NOISE, AND MAGNETI	IC ABSORPTION	OF
	UAG-C-28	N63-16023	13-12

HIGH ALTITUDE GEOPHYSICAL DATA 1962 - EARTH CURRENT AMPLITUD RAY NOISE ABSORPTION BY IONOSI UAG-C-29	O L DAVIS OF THE PARTY OF THE P
EMISSION SPECTRUM, DIURNAL VA RESONANCE - FREQUENCY VARIATI HIGH LATITUDE AFCRL-63-475	RIATION AND CAVITY ON OF RADIO NOISE AT N63-17132 15-12
ATMOSPHERIC RADIO NOISE, LIGH RADIATION, LIGHT POLARIZATION FREQUENCY RADIATION	
STATISTICAL ANALYSIS OF ATHOS	PHERIC RADIO NOISE N63-18222 17-08
RADIO NOISE DATA, SEPTEMBER,	OCTOBER, NOVEMBER,
1962 NBS-TN-18-16	N63-18361 17-08
MONTHERMAL RADIC NOISE FROM J INTENSE RADIO WAVES AND HIGH RADIATION	UPITER - EMISSION OF LEVELS OF MICRONAVE
RTOU TO SALDITE STORES STATE	N63-21425 22-05
ADIO OBSERVATION SOLAR PROTON EVENT INFORMATIO RADIO OBSERVATIONS	N FROM IONOSPHERIC N63-15120 11-28
RADIOASTRONOHY - RADIO OBSERV AFCRL-63-498	
RADIO OBSERVATIONS OF DOPPLER	FREQUENCY SHIFT FROM
SOVIET ORBITING SATELLITES	N63-22765 23-08
ADIO PROPAGATION ELECTRON DENSITY IN THE IONOS ALTITUDE NUCLEAR EXPLOSION	PHERE AFTER THE HIGH N63-10486 01-12
IONOSPHERIC DATA, INDIA, MARC	
MULTISLAB CONCEPT APPLIED TO IONOSPHERE AND ITS LIMIT TO C POLARIZATION AND REFLECTION E AFCRL-62-1079	ONTINUOUS IONOSPHERE,
BIBLIOGRAPHY ON RADIO DIRECTI RELATED IONOSPHERIC PROPAGATI NBS-TN-127	ON FINDING AND
MEAN ELECTRON DENSITY VARIATI TONOSPHERE, OCT. 1959 NBS-TN-40-8	
HEAN ELECTRON DENSITY VARIATI	NAT-THAT YEAR
IONOSPHERE, SEPT. 1959 NBS-TN-40-7	AT VERY MICH EREQU
MEAN ELECTRON DENSITY VARIATI IONOSPHERE - COMPUTER CALCULA MBS-TN-40-13	TONS OF THE QUIET ATIONS, 1959-1960 N63-11358 03-12
TRANSEQUATORIAL RADIO PROPAGA TONOSOMDE AFCRL-62-343	
CROSS- & AUTO-CORRELATION EFF ANOMALOUS TRANSEQUATORIAL PRO AFCRL-62-344	PECTS ASSOCIATED WITH DPAGATION AT 16 MC/S N63-11892 04-08
TRANSEQUATORIAL PROPAGATION A HEIGHT AND FREQUENCY PLOTS AFCRL-62-345	ANALYSIS - IONOSPHERIC N63-11893 04-12
LUNAR CONTROL OF TRANSEQUATOR RADIO - BACKSCATTER AFCRL-62-346	THE RESERVE AND A STREET OF
TRANSEQUATORIAL PROPAGATION A TRACING AND MODE AFCHL-62-347	AHALYSIS - RAY
EXOSPHERIC PROPAGATION OF BAN	FROMERING, DIGITION &
FIELD ALIGNED IONOSPHERIC IN	CE-STORAGE SECURISTIA - 95

TRANSEQUATORIAL PROPAGATION OF HIGH FREQUENCY RADIO WAVES AFCRL-62-353 N63-11900 04-08	DETECTION OF RADIO SIGNALS IN PRESENCE OF NON- WHITE GAUSSIAN NOISE - EFFECT OF INTERFERENCE ON RADIO RECEPTION
VARIATION OF RADIO-STAR AND SATELLITE AMPLITUDE	11.00
SCINTILLATIONS WITH ZENITH ANGLE - EFFECT OF IONOSPHERIC IRREGULARITIES N63-12467 06-12	SPACECRAFT SENSORS FOR DETECTING RADIO AND RADAR SIGNALS - ANALYSIS OF REQUIREMENTS AIAA PAPER-63-348 20-08
RADIO PHYSICS - RESEARCH AND DEVELOPMENT N63-14658 10-08	RADIO SIGNAL
RADIO PROPAGATION AND IONOSPHERIC DATA RRC-A84 11-12	DEFECTION OF RADIO SIGNALS IN PRESENCE OF NON- WHITE GAUSSIAN NOISE - EFFECT OF INTERFERENCE ON RADIO RECEPTION
SATELLITE-TO-SATELLITE PROPAGATION - EFFECTS OF	NASA-CR-50348 N63-17231 15-20
IONOSPHERE ON RADIO FREQUENCY ELECTROMAGNETIC WAYES AFCRL-63-4 N63-14858 11-08	VARIATIONS IN FADING PERIOD OF RADIC SIGNALS FROM EXPLORER VII SATELLITE USED TO STUDY ELECTRON DENSITY IRREGULARITIES IN THE IONOSPHERE
GEOLOGY AND GEOPHYSICS APPLIED TO RADIO	N63-21372 22-12
PROPAGATION THROUGH ROCK STRATIFICATION OF EARTHS CRUST AFCRL-63-40 N63-15106 11-08	MAPPING BY A CROSS-CORRELATION ANTENNA SYSTEM OF PARTIALLY COMERENT RADIO SCURCES
TELECOMMUNICATIONS RESEARCH - RADIO PROPAGATION,	N63-10684 02-08
IONOSPHERIC ABSORPTION, WEATHER RADAR, LF RADIO NOISE, AND SPACE TRACKING - SOUTH AFRICA	SPECTRUM OF RADIO EMISSION FROM DISCRETE SOURCE CASSIOPIA-A LOW FREQUENCIES N63-11524 03-05
CSIR-T-26 N63-15368 12-08 HIGH FREQUENCY COMMUNICATIONS SYSTEM FOR POLAR	PLASMA CLOUD IN MOTION AS RADIO EMITTING SATELLITE OF THE SUN No.3-11528 03-05
REGION - RADIO PROPAGATION AND IONOSPHERIC ABSORPTION	VARIATION OF RADIO-STAR AND SATELLITE AMPLITUDE
RADC-TDR-63-112 N63-15669 12-08	SCINTILLATIONS WITH ZENITH ANGLE - EFFECT OF IONOSPHERIC IRREGULARITIES N63-12467 06-12
FORECASTING ANOMALOUS RADIO PROPAGATION AT HIGH LATITUDES - ABSTRACTS	APPLICATION OF CROSS CORRELATION TECHNIQUES TO
RAD-TR-63-15 N63-15861 13-08	LINEAR ANTENNA ARRAYS EXCITED BY REPOTE RACIO SOURCES N63-18675 17-08
RADIO PHYSICS - RADIO PROPAGATION, PLASMA PHYSICS, COMMUNICATIONS, SURVEILLANCE, AND ANTERNAS 13-08 AFESD-TDR-62-116	POSSIBILITY OF HYPER-STAR AS LUMINOUS SOURCE IN LIGHT VARIATION OF RADIO SOURCE 3C273 - VARIABLE STAR N63-19768 19-05
RADIO PROPAGATION - STUDIES OF EQUATORIAL	LUNAR DECULTATION OF TAURUS A & 1C443 RADIO
RPU-S-9 N63-16044 13-12	SOURCES - HIGH PESOLUTION ANGULAR BRIGHTNESS
FOREST VEGETATION AS IMPERFECT DIELECTRIC SLAB - RADIO PROPAGATION	NBS-TN-184 N63-23431 24-08
AFCRL-63-483 N63-18310 17-16	RADIO TELESCOPE SOVIET STUDIES IN RADIO ASTRONOMY
RADIO DUCT /ABNORMAL MICROWAVE TRANSMISSION/ ON A WEATHER RADAR PLAN POSITION INDICATOR /PPI/	JPRS-16786 N63-11205 03-05
RSIC-38 N63-19721 19-21	RADIO ASTRONUMY - RADIO TELESCOPE, RADIO EMISSION, RADIO INTERFEROMETER
RADIO PHYSICS - RADIO PROPAGATION AND ANTENNAS, AND TECHNIQUES OF COMMUNICATION AND SUPVEILLANCE	JPRS-16917 N63-11545 04-05
N63-20378 20-08 ANTENNA AND RADIO WAVE PROPAGATION CHARACTERISTICS	APPROXIMATE METHOD FOR ELIMINATION OF SYSTEMATIC ERROR CAUSED BY RADIO TELESCOPES IN CELESTIAL OBSERVATIONS NO.9-11547 04-05
AT VERY HIGH FREQUENCY NEAR AND IN THE GROUND AFCRL-63-684 N63-20676 20-08	COORDINATE CONVERTER FOR TRACKING SYSTEM OF RADIO
CONCEPTS OF ANTIPODAL FOCUSING AND ITS SIGNIFICANT	TELESCOPE USING DIGITAL INTEGRATOR N63-11548 04-05
USE IN VLF PROPAGATION NBS-TN-182 N63-20736 21-08	CELESTIAL OBSERVATIONS WITH PULKOVO RADIO
RADIO PROPAGATION IN F-LAYER OF IONOSPHERE AND	TELESCOPE ON 33-CM WAVELENGTH
TROPOSPHERE - INFLUENCE OF COSMIC RAYS N63-20799 21-09	INTENSITY OF RADTO EMISSION FROM SPACE USING RADIO TELESCOPE NGS-11554 04-05
IONOSPHERIC ABSORPTION EFFECT ON VERY LOW FREQUENCY RADIO WAVE PROPAGATION AT HIGH LATITUDES AFCRL-63-856 N63-20918 21-09	MICROMAVE UBSERVATIONS OF VENUS UTILIZING THO- CHANNEL RADIO TELESCOPE MOUNTED ON MARINER II SPACECRAFT No3-13845 09-29
THE IONOSPHERE - AN ANNOTATED SURVEY THROUGH 1960 OF RADIO PROPAGATION, RADIO WAVES & PHYSICS OF IONOSPHERE	SOLAR FLUX MEASUREMENTS, APRIL 1962, USING A 8-FT ANTENNA AND PARABOLA 84-FT IN DIAMETER
SEL-62-064 N63-21107 21-12	AFCRL-62-1111 N63-14186 09-05
LITERATURE SURVEY OF RADIO WAVE PROPAGATION OVER GROUND WITH VARYING ELECTRIC CONSTANTS AFCRL-62-545	PROBLEMS OF LARGE RADIO TELESCOPES N63-22272 23-05
SURVEILLANCE TECHNIQUES, RADIO PROPAGATION AND PLASMA PHYSICS - RESEARCH AND DEVELOPMENT REPORT IN RADIO PHYSICS N63-21297 21-09	RADIO TRANSMISSION CF LUXEMBOURG EXPERIMENT CODING METHOD FOR A REPORTING SYSTEM IN SPACE TRAVEL WGL PAPER-43 N63-10039 01-20
RADIO RECEPTION	
CF SIGNAL RECEPTION	SPECIAL PROBLEMS OF THE SATELLITE NEWS

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RADIO RECEPTION
CF SIGNAL RECEPTION

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TRANSMISSION TECHNIQUE WGL PAPER-44 N63-10040 01-08	INTERFERENCE REDUCTION M63-13858 09-08
RADIO FREQUENCY TRANSMISSION THROUGH A PLASMA GENERATED IN MOSE REGION OF HIGH VELOCITY GROUND— TO-AIR MISSILE N63-10687 02-08	RADIO ASTRONOMY - SOLAR RADIO WAVE, UPPER ATMOSPHERE RADIO OBSERVATION, AND RADIO EQUIPMENT AFCRL-63-224 N63-13217 11-05
TRANSHISSION OF AUDIOFREQUENCY ELECTROMAGNETIC	DATA ON ATMOSPHERICS, RADIO NOISE, WHISTLERS, AND SOLAR RADIO EMISSIONS N63-15256 12-08
MAYES THROUGH EARTHS IONOSPHERE IN IONIC MODE AFCRL-62-797 N63-11039 03-08 OPTIMUM DETECTOR FOR FREQUENCY SHIFT KEYED	PRODUCTION OF FREE ELECTRONS IN IONOSPHERIC D-LAYER BY SOLAR AND GALACTIC COSMIC RAYS AND RESULTANT ABSORPTION OF RADIO MAYES
TRANSMISSION THROUGH A RAYLEIGH FADING CHANNEL RADC-TDR-62-554 N63-11410 03-08	CR-61 N63-15944 13-28 ELECTRON FLUX AND ITS RELATIONSHIP TO AURORAL
DIGITAL RAY DATA ANALYSIS OF SATELLITE AND ROCKET	ABSORPTION OF RADIO WAVES N63-17172 15-12
BRL-1163 N63-13285 07-12 RADIO-ATTENUATION MEASUREMENT /RAM AL/ TEST, FOUR-	DETECTION OF SOLAR PARTICLE STREAMS BY HEASURING POLARIZATION OF HIGH FREQUENCY RADIO MAYES SEL-63-041 N63-17573 16-08
STAGE SOLID-PROPELLANT ROCKET VEHICLE - PERFORMANCE AND DESIGN NASA-TN-D-1611 N63-13548 08-31	OBSERVATORY FOR DETECTION OF WHISTLERS AND ATMOSPHERIC-EMITTED VERY LOW FREQUENCY RADIO WAVES
INPUT AND OUTPUT SIGNALS OF LINEAR TIME-VARYING	N63-18224 17-10 DAYTIME ATTENUATION COEFFICIENT OF VLF RADIO WAVES
TRANSMISSION PIBMRI-1102-62 N63-13928 09-08	FROM ELECTRIC FIELD STRENGTH OF ATMOSPHERICS N63-18225 17-21
ELECTRON COLLISION PROPORTIONAL TO ENERGY IN RADIO NAVE REFLECTION & TRANSMISSION	PROPAGATION, ABSORPTION, AND IONIZATION OF RADIO WAVES IN IONOSPHERE N63-18442 17-12
NBS-TN-164 N63-14864 11-24 CIRCUITRY FOR TRANSMITTING ULTRASTABLE TIME OR	IRREGULAR STRUCTURE AND MOTIONS IN IONOSPHERIC F-LAYER - RADIO MAVE REFRACTION METHOD
FREQUENCY SIGNALS FROM OSCILLATORS TO MOVING AIRCRAFT 6 SPACECRAFT - DOPPLER SHIFT ELIMINATION AFCRL-63-93 N63-16281 13-09	AFCRL-63-196 N63-19677 19-12 ANALOG COMPUTER PROGRAMMING FOR RAY TRACING OF
SHORT WAVE RADIO PROPAGATION - NARROW BAND GAIN, STABLE RECEIVER DEVELOPMENT AND IONOSPHERIC	RADIO WAVES IN THE IONOSPHERE N63-19517 19-20
DOPPLER EFFECT MEASUREMENTS N63-21673 22-09 TRANSMISSION OF U.N. GENERAL ASSEMBLY OPENING BY	THE IONOSPHERE - AN ANNOTATED SURVEY THROUGH 1960 OF RADIO PROPAGATION, RADIO MAYES & PHYSICS OF IONOSPHERE
RELAY I AND SYNCOM II VIA TELEVISION AND RADIO N63-21991 22-08	SEL-62-064 N63-21107 21-12 NONTHERMAL RADIO NOISE FROM JUPITER - EMISSION OF
DESIGN OBJECTIVES FOR TELEMETRY UHF TRANSMISSION LINKS NAVWEPS-6146 N63-22132 22-08	INTENSE RADIO WAVES AND HIGH LEVELS OF MICROWAVE RADIATION R-60 N63-21425 22-05
FLIGHT TESTS OF FLUSH-MOUNTED, TUMBLING-AIRFOIL,	EFFECT OF CENTIMETER RADIO WAVES ON FERTILITY &
CRASH POSITION INDICATOR - RELIABILITY FOR RADIO SIGNAL TRANSMISSION AFTER CRASH IMPACT ASD-TOR-63-46 N63-23427 24-02	REPRODUCTION OF RICE JPRS-21200 N63-22588 23-16
AND WAYE - SOUTH AND SUPPLIES AND SUPPLIES OF STREET	POWER SCATTERED FROM DENSITY FLUCTUATIONS IN PLASMA - INCOHERENT SCATTERING OF RADIO WAVES IN
IONOSPHERIC ABSORPTION OF RADIO MAYES - COSMIC NOISE METHOD - MAGNETOIONIC THEORY AFCRL-62-1044 N69-10119 01-28	IONOSPHERE SEL-63-066
ELONGATION OF IRREGULARITIES IN THE EQUATORIAL	RADIOACTIVE DATING RADIOACTIVE DATING OF GEOLOGICAL FORMATIONS AND
IONOSPHERE - FADING OF RADIO WAVES BY SCATTERING AFCRL-62-902 N63-10134 01-12	METEORITES MY0-3943 N63-20035 19-12
ELECTROMAGNETIC RADIATION FROM PLASMA OSCILLATIONS AND NARROW-BAND RADIO BURSTS FROM THE SUN N63-10211 01-05	GEOPHYSICS - RADIO ASTRONOMY, RADIO HYDROGEN AND CONTINUUM RADIATION OBSERVATIONS, EARTH CRUST STUDIES AND RADIDACTIVE DATING
ENERGETIC ELECTRONS AND AURORAL ABSORPTION OF	M63-23540 24-12
RADIO MAYES SUI-62-23-B N63-10685 02-12	RADIOACTIVE ELEMENT
SOVIET PAPERS ON RADIOPHYSICS JPRS-15517 N63-11523 03-05	REACTOR FUELS N63-10419 01-01
INTERACTION OF RADIO WAVES IN THE IONOSPHERE N63-11532 03-12	REACTOR FUELS - PLASTICS, X-RAYS, RADIOELEMENTS MLM-1135 144161 3411662000 N63-10421 01-01
FIELD ALIGNED IONOSPHERIC IRREGULARITIES AND TRANSEQUATORIAL PROPAGATION OF HIGH FREQUENCY	PLASTICS RESEARCH, ISOTOPES, RANGER X-RAY SENSOR, RADIOACTIVE ELEMENTS AND REACTOR FUELS MLH-1136 03-01
AFCRL-62-353 N63-11900 04-08	PLASTICS RESEARCH, ADHESIVES, REACTOR FUELS, RADIOACTIVE ELEMENTS AND ISOTOPES
PERTURBATION METHODS APPLIED TO REFLECTION OF RADIO WAVES FROM IONOSPHERE	MLH-1137 N63-11349 03-01
AFCRL-63-215 N63-13304 07-12	PLASTICS RESEARCH, RADIOACTIVE ELEMENTS, ISOTOPE SEPARATION & PURIFICATION, REACTOR FUELS, X-RAY
SPACE COMMUNICATION - PROPAGATION AND NOISE IN RADID-WAVE SPECTRUM - TELEMETRY TRANSMISSION	SENSORS MLH-1130 03-01

NATURAL RADIOELEMENTS AND ANALYTICAL METHODS FOR URANIUM, THORIUM, AND THEIR DECAY PRODUCTS AEC-TR-5458 N63-12164 05-23

PLASTICS AND RADIGELEMENTS RESEARCH - ISOTOPE SEPARATION AND PURIFICATION - REACTOR FUELS NLM-1146 N63-14625 10-23

HANFORD BIOLOGY RESEARCH ANNUAL REPORT FOR 1962 TOXICITY AND METABOLISM OF RADIOACTIVE ELEMENTS,
ANIMAL AND PLANT PHYSIOLOGY, ECOLOGY
HW-75000 19-14

RADIOACYIVE ISOTOPE SA CERIUM 144 SA CESIUM 137 SA COBALT 60 SA ERBIUM 169 SA ERBIUM 171 SA HELIUM 3 SA TOOINE 131 SA PLUTOMIUM 239 SA POTASSIUM 40 SA STRONTIUM 90 SA TELURIUM 119 SA TERBIUM 161 SA THULIUM 171 SA URANIUM 233 SA URANIUM 233 SA URANIUM 233

SA XENON 133
SOVIET-BLOC RESEARCH IN GEOPHYSICS, ASTRONOMY, AND
SPACE SCIENCES /NO. 29/ 1962
JPRS-12445
N63-11013 03-01

THEORY OF FOLDING DEFORMATIONS IN EXPANDABLE STRUCTURES, TOROIDAL SHELLS NASA-TN-D-1690 N63-11056 03-34

PRODUCTION OF SHORT-LIVED INTRINSIC RADIOTRACERS FOR INDUSTRY PROCESS CONTROL BMT-1606 M63-11729 04-1

METABOLISM OF RADIOISOTOPES OF RARE EARTHS, ALKALINE EARTHS, AND HEAVY METALS AEC-TR-5236 04-10

DEVICE FOR MEASUREMENT OF THORON IN THE BREATH

METABOLISM OF FISSION PRODUCTS - PHYSICO-CHEMICAL STATE & METABOLIC PATH OF RADIOCETIUM SOLUTIONS AEC-TR-5242 N63-12023 05-16

MEASUREMENT OF ADSORPTION ONTO EXPLOSIVE SURFACES USING CARBON-14 PA-TR-9008 N63-12426 06-07

RAPID RADIOCHEMICAL METHOD FOR SEPARATING ANTIMONY AND ARSENIC FISSION PRODUCTS FROM THEIR NUCLIDES USANDL-TR-607 N63-12788 06-07

METEORITE ANALYSIS FOR GAMMA RAY EMITTING ISOTOPES BY SCINTILLATION COUNTER LA-2765 N63-12991 07-23

REACTOR R&D FOR CIVILIAN APPLICATIONS - FUELS, MATERIALS, RADIOISOTOPES, COATINGS, AND RADIATION EFFECTS
BMI-1607/DEL./
N63-13373
08-0

ACTINIUM - CHEMICAL AND PHYSICAL PROPERTIES, COMPOUNDS, ISOTOPES, AND CHEMICAL ANALYSIS RLM-1147-TR M63-13419 08-18

HAZARDS CONTROL - DETECTION OF AIRBORNE LONG-LIVED ALPHA EMITTING RADIOACTIVE ISOTOPES UCB1-7143

POLARITY AND RELATIVE INTENSITY OF GAMMA RAYS
EMITTED DURING TRANSMUTATION THORIUM-234 PROTACTINIUM-234 METASTABLE N63-13943 09-23

RADIOISOTOPE FUELED THERMOELECTRIC GENERATORS N63-14143 09-06

RADIDISOTOPIC HEAT SOURCES HW-76323 N63-14308 10-23

PLASTICS AND RADIOELEMENTS RESEARCH - ISOTOPE

SEPARATION AND PURIFICATION - REACTOR FUELS N63-14625 10-2)

CARBON-14 AND NITROGEN-15 TRACER STUDIES OF ARINO ACID SYNTHESIS BY CHLORELLA N63-14632 10-49

HYPERFINE STRUCTURE OF ERBIUM-169 AND RADIOACTIVE ISOTOPES OF REFRACTORY ELEMENTS
UCRL-10609 N63-15487 12-37

ATOMIC ENERGY R&D - ADHESIVES, RADIOELEMENTS, RADIOISOTOPE SEPARATION, ALPHA & NEUTRON SOURCES, REACTOR FUELS & MATERIALS, CHEMICAL ANALYSIS NLM-1145 N63-15558 12-11

NUCLEAR ENERGY FOR CIVILIAN APPLICATION -REACTOR MATERIALS, RADIOACTIVE ISOTOPES BMI-1619/DEL./ N63-15965

NUCLEAR SPINS OF COPPER-62 AND IRON-59 - HYPERFIN STRUCTURE SEPARATION OF COPPER-61 & COPPER-64 -ATOMIC BEAM MAGNETIC RESONANCE MEASUREMENT METHOD UCRL-10780 M63-16573 14-23

INTERPRETATION OF HIPPURAN RENOCYSTOGRAM - BLOOD FLOW IN KIDNEY BY RADIOACTIVE TRACER /IODINE-131/ UCLA-512 N63-17265 15-19

RADIOLOGICAL PHYSICS RESEARCH - RADIOISOTOPE METABOLISM, QUANTUM YIELD OF LIQUID SCINTILLATORS, SHIELDING, FILM DOSIMETERS, RADON METEOROLOGY ANL-6646 N63-17305 15-41

RADIOPHYSICS - METABOLIC MODEL FOR BONE-SEEKING RADIOACTIVE ALKALINE EARTH ISOTOPES USING MATHEMATICAL POWER FUNCTION N63-17306 15-J

EFFECT OF SILVER HALIDE CONTENT IN FILM EMULSION ON RADIATION DOSIMETER RESPONSE TO STRONTIUM-90/ YTTRIUM-90 BETA RADIATIONS - RADIOPHYSICS NA3-17309 15-:

CIVILIAN APPLICATIONS OF RESEARCH - REACTOR FUELS AND MATERIALS - RADIOISOTOPES - IRRADIATION -CERAMICS - FISSION PRODUCTS BMI-1624/DEL./ N63-17440 15-87

RADIOACTIVE TRACER AND WORK FUNCTION OF CHEMISORPTION OF GAS ON METAL

BNL-6407

N63-18408 17-23

N63-18987

13-26

RADIOTRACER STUDIES TO DETERMINE FINAL
DISTRIBUTION OF CERIUM ADDITIONS TO STEEL AND
EFFECT ON SULFIDE INCLUSIONS
BM-RI-6256
N63-18719
17-18

PRODUCTION OF SPECIAL RADIOISOTOPES USING REACTOR IRRADIATION

BIOCHEMICAL DETECTION OF EXTRATERRESTRIAL LIFE USE OF RADIOISOTOPIC METABOLIC DETECTION ON MARS
N63-19482 19-16

RECOVERY OF RADIOCESIUM BY SOLVENT EXTRACTION
USING DIPICRYLAMINE - RADIOCHEMISTRY
HN-76222 N63-19501 19-60

RADIOISOTOPIC SEMICONDUCTORS - ELECTRON BETA-VOLTAIC EFFECT & AUGMENTING SEEBECK EFFECT IN STRONTIUM-90 & CERIUM-144 NNO-2584-4 N63-20652 20-25

BALL BEARING WEAR & LUBRICATION TEST MACHINE USING X-RAY & RADIOACTIVE TRACER TECHNIQUES AL637011 N63-21113 21-17

POST MORTEM DISCOVERY OF RADIOISOTOPE CONTAMINATION IN MAN AFTER X-RAY & BETATRON

CONTAMINATION IN MAN AFTER X-RAY & BETATRON
THERAPY
JPRS-20988 N63-22432 23-14

REACTOR TECHNOLOGY & RADIOISOTOPE USES - SURVEY OF WORLD LITERATURE | ITRI-1194-13 N63-22619 23-21

RADIOELECTRONICS IN PHYSIOLOGICAL EXPERIMENTATION AND CLINICAL PRACTICE - RADIOTELEMETRIC STUDY

10-23
AHIM
MELLA
10-07
CTIVE
12-23
ACES,
12-17

13-26

ERFINE 4 -ETHOD 14-23

131/ 15-14

15-01 15-16 15-16 10M 90/ 15-23 UELS

17-23

TOR 18-09 IRS 19-16

9-01

0-25 SING 1-17

3-16 y of 3-23

I CIN

OF TEMPERATURE IN HUMAN DIGESTIVE TRACT JPRS-21286 N63-22660 23-14	TREATMENT OF LOW LEVEL AQUEOUS RADIOACTIVE WASTES N63-18944 .18-07
CHEMICAL KINETICS OF MICKEL-FLUORINE REACTION USING RADIDACTIVE TRACER ISOTOPES ANL-6684 N63-22988 23-07	REACTOR FUEL PAGGESSING, ELECTROLYTIC DISSOLUTION, RADIOACTIVE WASTE TREATMENT & CALCINATION 100-14611 M63-19600 19-07
SELF-DIFFUSION IN ANTHRACENE SINGLE CRYSTALS BY RADIOACTIVE TRACERS B2130-T-1 N63-23078 24-07	DEPOSITION OF RADIGACTIVE WASTE FROM COOLANT OF NUCLEAR REACTOR GEAP-4140 N63-20952 21-11
DIFFUSION COEFFICIENT OF CHROMIUM IN ALUMINUM FROM 250 TO 605-DEG C USING RADIDACTIVE TRACER AEET-CD-15 N63-23107 24-18	RADIOACTIVE WASTE DISPOSAL, RADIATION ECOLOGY, DOSINETRY, AND HEALTH PHYSICS TECHNOLOGY ORML-3492
RADIOISOTOPE THERMOELECTRIC POWER GENERATORS - HEAT TRANSFER, POWER-TIME REQUIREMENTS, AND RADIOISOTOPES D-709582 N63-23369 24-23	RADIOACTIVITY CF FISSION PRODUCT DISTRIBUTION AND HETABOLIC FATE OF 1.1-DIMETHYL HYDRAZINE
NUMERICAL ANALYSIS OF DIRECT NUCLEAR ELECTROGENERATOR CELLS USING CERIUM 144 BETA- EMITTING RADIOISOTOPE SOURCES NASA-TN-D-2070 N63-23683 24-23	AMRL-TDR-62-110 M63-10469 D1-16 DIFFUSION MEASUREMENTS OF RADIOACTIVE RARE-GASES IN SOLIOS EUR-111-E M63-10781 02-15
MADIDACTIVE MATERIAL SAFETY RULES FOR WORKING WITH RADIOACTIVE MATERIALS	AERORADIOACTIVITY SURVEY AND RELATED SURFACE GEOLOGY IN CALIFORNIA CEX-59.4.16 N63-11713 04-16
AEC-TR-5445 N63-11936 04-16 STRUCTURAL INTEGRITY OF SHIPPING CONTAINERS FOR RADIOACTIVE MATERIALS - TRANSPORT OPERATIONS AND	CONTAMINATION & DECONTAMINATION OF WATER-COOLED, LOW TEMPERATURE REACTORS — DEPOSITION OF RADIO- NUCLIDES ON ALUMINUM OP-788 N63-11010 04-23
CONTAINER CONSTRUCTION NYO-9859 N63-12661 06-34 PHASE TRANSFORMATION IN CALCINATION OF NITRATES OF	DP-788 N63-11016 Q4-23 POTASSIUM-40 ABUNDANCE AS INDICATOR OF NATURAL BACKGROUND RADIDACTIVITY N63-12066 05-16
ALUMINUM, STAIMLESS STEEL, AND NICKEL-CHROMIUM ALLOYS 100-14601 M63-13200 07-23	MATURAL RADIOELEMENTS AND ANALYTICAL METHODS FOR URANIUM, THORIUM, AND THEIR DECAY PRODUCTS. AEC-TR-5458 05-23
ELECTRON PROBE FOR SPECTROSCOPIC ANALYSIS OF RADIOACTIVE MATERIALS EUR-118-F N63-13762 08-07	TIME CORRELATION TECHNIQUE FOR INVESTIGATING TWO CONNECTED NUCLEAR TRANSFORMATIONS - MADIOACTIVE
ANL 350 HELIUM-ATMOSPHERE SYSTEM - MOISTURE AND DXYGEN REMOVAL, PURIFICATION, RADIOACTIVE MATERIAL PROCESSING	DECAY AROD-2543-8 N68-13432 08-23 AIRBORNE RADIOACTIVITY FROM NUCLEAR TEST -
ANI-6489 N63-13774 08-10 APPLICATION OF ANALYTIC PROCEDURE OF THERMAL	TRANSDUCER MEASUREMENT PLATFORM - MRL REPORT N63-13607 08-01
ANALYSIS TO SOME HIGHLY RADIOACTIVE IRRADIATED MATERIALS WAPD-TM-350 H63-14021 09-23	CORRELATION OF BETA ACTIVITY AND STRONTIUM-90 IN AIR CONCENTRATIONS WITH NUCLEAR TESTING PATTERNS - EXPECTED RADIDACTIVITY LEVEL INCREASE
EFFECT OF TEMPERATURE AND CARRIER GAS ON LOSS RATE OF TRITIUM FROM RADIOACTIVE FOILS N63-15273 12-23	PHYSICAL CHEMISTRY - CATION HIGRATION INTO THE GROUND
AGLE OF INTERNAL ENERGY TRANSFER PROCESSES IN MADIATION CHEMICAL REACTIONS INVOLVING FREE RADICALS AND INTERMEDIATE SPECIES ASD-TOR-62-540 N63-16102 13-07	CALCULATION OF ANOMALOUS MAGNETIC MOMENT & LIFE- TIME FOR RADIDACTIVE DECAY PARTITIES AS PROPERTIES OF PION BARYON INTERACTION N63-13961 09-23
THERMOLUMINESCENCE AND GEOCHEMISTRY OF CALCIUM CARBONATE IN RELATION TO RADIOACTIVE INPURITY CONTENT N63-19648 19-25	RADIOCHEMICAL REGENERATION OF FUEL CELL REACTANTS IN CLOSED CYCLE ELECTROCHEMICAL CELLS M63-19134 09-06
RADIDACTIVE WASTE REUSABILITY AND DISPOSAL OF NUCLEAR SYSTEMS IN SPACE N63-10377 01-27	MIGH ENERGY RADIATION FROM THE SUM - EMERGETIC PARTICLE FLARES, GAMMA RAYS, AND RADIOACTIVITY EFINS-63-9 M63-14328 10-28
USE OF DEPLETED URANIUM IN BEARING ALLOYS AND LOW-ALLOY STEELS N63-10659 02-17	FISSION PRODUCT NICKATION INTO AND RELEASE FROM IRON-20 N/O CHRONIUM ALLOY BMI-1611 M63-14719 11-18
FUNDAMENTAL NUCLEAR EMERGY RESEARCH - RADIATION HEDICINE, PHYSICAL SCIENCES, EMVIRONMENTAL SCIENCE, NUCLEAR REACTOR, RADIOACTIVE WASTE M63-15708 12-01	INTERCALIBRATION OF HONITORING SYSTEMS FOR FISSION PRODUCTS IN ATMOSPHERE NRL-5850 M69-14785 11-15
M63-15708 12-01 TESTING OF HIGH EFFICIENCY FILTERS AND FILTER INSTALLATIONS FOR PREVENTION OF AIR POLLUTION BY RADIOACTIVE MASTE	FISSION PRODUCT RADIOACTIVITY IN ATMOSPHERE ALONG BOTH MERIDIAN DURING 1961 - AIR SAMPLING MRL-3869 M65-14786 11-28
ORNL-3442 HANDLING AND PROCESSING OF REACTOR FUELS.	QUANTITATIVE AMALYSIS OF MULTICOMPONENT PULSE- HEIGHT SPECTRUM FROM DECAY DF RADIOMUCLIDES HU-73806 11-20
RADIDACTIVE MATERIALS AND WASTES ORNIL-3314 N63-18929 17-01	RATE OF TRITIUM FROM RADIOACTIVE FOILS

11 244 TWITESASIBLE SEE SOOK TYWEE 16 N63-15273 12-23	SYMPOSIUM ON AEROSPACE RADIOBIOLOGY - ENERGY SPECTRA AND COMPOSITION OF SOLAR COSMIC RAYS, TIME
ATMOSPHERIC CONTAMINATION AND RADIATION DOSE FROM NUCLEAR EXPLOSIONS UP TO APRIL 1962 AEET/AM/27 N63-16040 13-16	VARIATIONS AND PROPAGATION FROM SUN TO EARTH N63-15286 12-28
OFF-SITE ENVIRONMENTAL SAMPLING AND MONITORING	LUNAR AND PLANETARY EXPLORATION - EXOBIDLOGY AND BIOLOGICAL EFFECTS OF RADIATION
DATA OF RADIOACTIVE CLOUDS - SEDAN PROJECT PNE-200F N63-16270 13-21	VA THE TAX SAN TO SEE THE WAS NOT THE WORLD
HYDRODYNAMIC MODEL OF RADIOACTIVITY - EQUATING RATE OF MATER FLOW WITH DECAY OF RADIOMUCLIDE AEET-ANAL6 No.3-16539 14-23	RADIATION EFFECTS ON BIOLOGICAL SYSTEMS - MECHANISM OF RADIATION EFFECTS ON CELLS - RADIOBIOLOGY N63-19489 19-16
AEET-ANAL6 N63-16539 14-23 GAMMA RADIOACTIVITY AIRBORNE SURVEY - CORRELATION	RADIOBIOLOGICAL ASPECTS OF MANNED SPACE FLIGHT N63-19491 19-14
MITH GEORGIA GEOLOGY CEX-58.4.8 N63-16961 14-12	RADIATION BIOLOGY EXPERIMENTS
RADIOACTIVE NUCLIDES IN CHONDRITIC BRUDERHEIN METEORITE AND OTHER STONY METEORITES	UR-627 NG3-19811 19-16 NUCLEAR MEDICINE AND RADIOBIOLOGY RESEARCH
NASA-CR-50181 N63-17153 15-12 WELDING IN A RADIOACTIVE ENVIRONMENT TID-7620 /PT. 1/ N63-17251 15-18	UCLA-515 N63-20640 20-16 NUCLEAR SAFETY - PHYSICS, FISSION RELEASE AND BEHAVIOR, CONTAINMENT ENGINEERING, INFORMATION
FLOW MEASUREMENT OF TRANSPORT PROPERTIES AT FLAME	CENTER, RADIOCHEMICAL PLANTS, SPACE RADIOBIOLOGY ORNL-3483 N63-21471 22-16
TEMPERATURE - RADIOACTIVE TRACER DEL-13-P N63-17524 16-11	SEMICONDUCTOR RADIATION DETECTORS APPLIED TO
COSMIC RAY INDUCED STABLE AND RADIDACTIVE NUCLIDES IN METEORITES	SAM-TDR-63-25 N63-22077 22-16
NASA-TN-D-1844 N63-17550 16-05	RADIATION EFFECTS, BIOLOGY AND MEDICINE NASA-CR-51998 N63-23017 24-16
PHYSICAL AND RADIOLOGICAL CHARACTERISTICS OF FALLOUT - UNDERGROUND NUCLEAR DETONATION - AERIAL RADIOMETRIC SURVEY	RADIOBIOLOGICAL RESEARCH IN USSR JPRS-14415 N63-23272 24-16
PME-225P N63-17723 16-07	RADIOCHENISTRY NOTE HE PLESTE RESULTATE HUSE HUSE
RADIATION THERAPY OF MALIGNANT DISCROERS USING TOTAL BODY IRRADIATION — USE OF MEDICAL NUCLIDES, RADIDISCROPES, AND TRACERS	SURVEY OF RECENT NUCLEAR REACTION EXPERIMENTS WITH ONE TO THREE MEY PARTICLE ACCELERATORS AFCRL-62-162 N63-10146 01-21
ORINS-42 17-16	RADIATION CHEMISTRY - DISTRIBUTION OF IONS AND
RADIATION MEASUREMENTS OF RADIGACTIVE DEBRIS FROM KIWI B-IA, B-IB AND B-4A REACTORS LAMS-2932 N63-20720 Z1-10	MOLECULES IN GAS PHASE ARL-62-426 N63-10323 01-07
AMPLITUDE OF MONOCHANNEL SPECTROMETER RESPONSE TO RADIDACTIVITY N63-21629 22-23	HIGH VACUUM APPARATUS AND METHODS USED IN RADIATION-CHEMICAL STUDIES OF ORGANIC COMPOUNDS ASD-TDR-62-575 N63-10741 02-07
RADIOACTIVATION USED IN QUALITATIVE & QUANTITATIVE ANALYSIS OF MATERIALS - REFERENCES & INDEXES TID-3575 M63-22218 23-23	APPARATUS FOR HANDLING IRRADIATED SOLUTION FOR FAST RADIOCHEMICAL SEPARATION W63-12473 06-01
ELECTROSTATIC PRECIPITATOR FOR RADIOACTIVE DUST COLLECTION RSIC-57 N63-22558 23-15	RAPID RADIOCHEMICAL METHOD FOR SEPARATING ANTIHOM AND ARSENIC FISSION PRODUCTS FROM THEIR NUCLIDES USHROL-TR-607 N63-12788 06-01
LUNAR TEMPERATURES, SURFACE RADIOACTIVITY, AND SOIL MECHANICS	FISSIGCHENISTRY - MUCLEAR REACTOR PROCESS FOR PRODUCTION OF HYDRAZINE FROM AMMONIA
RIBONUCLEIC ACID IN METABOLIC POOL, RNA OF	ASD-TR-7-840A/VII/ N63-13706 QB-01 COMPUTER METHODS FOR NUCLEAR AND RADIOCHEMISTRY
ESCHERICHIA, PROTEIN SYNTHESIS, 6 RNA RADIOACTIVITY - BIDPHYSICS N63-23543 24-16	NAS-NS-3107
TRANSPORT OF RADIONUCLIDES IN FRESH WATER SYSTEM TIO-7664 N63-23783 24-23	RADIO AND NUCLEAR ANALYTICAL CHEMISTRY IDO-14605 N63-18014 16-01
RADIOSIOLOGY TORN ON A 224 ANALY RESERVE THE RESERVE T	VARIABLE KEY MEIGHT CASCADE FOR MULTICOMPONENT ISOTOPE SEPARATION - RADIO CHEMISTRY
MAMMALIAN METABOLISM AND RADIOBIOLOGY	K-1571 N63-18301 17-07 RECOVERY OF RADIOCESIUM BY SOLVENT EXTRACTION
SOVIET RADIOBIOLOGICAL RESEARCH REVIEW	USING DIPICAYLAMINE - RADIOCHEMISTRY HM-76222 N63-19501 19-01
AEC-TR-5427	RADIOCHEMISTRY - BIOASSAY & CHEMICAL ANALYSIS
METABOLISM OF RADIOISOTOPES OF RARE EARTHS, ALKALINE EARTHS, AND HEAVY METALS AEC-TR-5236 N63-11824 04-16	THERMONUCLEAR REACTOR FOR STUDY OF PROCESSES OF
EARLY CHANGES IN SKIN CHRONAXY AND VISUAL ANALYZERS - RADIOBIOLOGY N63-12395 06-16	PHOTOCHEMISTRY AND RADIOCHEMISTRY AND EFFECTS OF NUCLEAR RADIATION ON SOLIDS AND SEMICONDUCTORS AID-P-63-86 N63-20252 20-16
BIOCHEMISTRY - RADIOBIOLOGY - MEDICINE - BIOPHYSICS - MUCLEAR RADIATION - PHARMACOLOGY - TOXICOLOGY UCLA 510 N63-12946 07-16	HIGH ENERGY RADIATION - PROPERTIES, DETECTORS, RADIATION CHEMISTRY, UNITS OF MEASUREMENT, & EFFECTS ON MATERIALS BAL-748/T-274/ N63-20926 21-2
KAKE, DE ANTAGADA SKOD KIDZATAR POLITICA	

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-10

-23

CO-PRECIPITATION TECHNIQUE FOR NORKING WITH SHORT LIVED ISOTOPES IN RADIOCHEMISTRY N63-21630 22-23	AERIAL RADIOLOGICAL MEASURING SURVEY SYSTEM OVER HIGH-INTENSITY RADIATION FIELD OF SMALL AREA CEX-62-6.2 M63-16351 17-23
NUCLEAR, RADIATION, ORGANIC, ELECTRO-PHYSICAL, S WATER CHEMISTRY ORNL-3488 N63-23567 24-07	PHOTOGRAPHIC DOSIMETRY /MUCLEAR MEDICINE/ - ANNOTATED BIBLIOGRAPHY UCLA-516 NAS-20344 20-16
RADIOGONIOMETER CF DIRECTION FINDER	MUCLEAR MEDICINE AND RADIOBIOLOGY RESEARCH UCLA-515 N63-20640 20-16
RADIOGRAPHY CF PHOTOGRAPHY AUTORADIOGRAPHY OF CARBON AND SULFUR IN TITANIUM	IONIZING RADIATION AT HIGH ALTITUDES AND RADIOLOGICAL SAFETY DURING SPACE FLIGHT - SPACE BIOLOGY H63-21513 22-16
STEELS BH-RI-6122 N63-10969 02-18	FAST NEUTRON SOURCE FOR RADIOTHERAPY N63-22257 23-16
SURFACE FINISH STANDARD FOR RADIOGRAPHING WELDS FOR INSPECTION N63-11941 04-17	IMPORTANCE OF FAT RESERVES OF THE CELL FOR 175. REACTIVATION FOLLOWING RADIATION INJUNY
FLASH RADIOGRAPHIC MEASUREMENT OF THE SHOCK COMPRESSIBILITY OF MAGNESIUM ALLOY, LUCITE, AND POLYETHYLENE AFSWC-TOR-62-134 N69-13522 08-33	RELATIVE BIOLOGICAL EFFECT OF 660-MEY PROTONS
AUTORADIOMETRIC SYSTEM FOR DIFFERENTIATING BETWEEN NORMAL OR ENRICHED URANIUM OR URANIUM ALLOYS	PADIATION EFFECT ON MOLECULAR STRUCTURE OF DESOXYRIBONUCLEIC ACID IN PRESENCE OF PROPYLGALLATE No.3-23275 24-16
NEW SPECIMEN HOLDER FOR GUINIER X-RAY CAMERA EUR-251.F N63-17559 16-17	RADIOLOGY STUDIES IN USSR JPRS-21214 24-16
NUCLEIN METABOLISM IN REGENERATION OF SKELETAL MUSCLES BY QUANTITATIVE AUTORADIOGRAPHY	ACTION MECHANISM OF ANTIRADIATION AGENTS 7 RADIOLOGY N63-23292 24-16
JPRS-20997 N63-22587 23-16 DEMSITY OF URANIUM DIOXIDE AT GIVEN HEAT & CHANGE	ACTION OF RADIOPROTECTIVE AGENTS - N63-23293 24-16
IN VOLUME ON MELTING MEASURED BY HIGH TEMPERATURE RADIOGRAPHY HN-75148 N63-22964 23-19	EFFECT OF CYSTEAMINE PROTECTION ON MICE - POTENTIOMETER DETERMINATION N63-23294 24-16
HIGH RESOLUTION MICRORADIOGRAPHY - HIGH CONTRAST RADIOGRAPHS FROM LOW CONTRAST MATERIALS ORN3511 N63-23099 24-17	EFFECT OF UNITHIOLE ON THE RENAL FUNCTION OF DOGS INJURED BY IGNIZING RADIATION N63-23295 24-16
BIBLIOGRAPHY OF TECHNIQUES OF RADIOGRAPHIC INSPECTION SID-63-1186 N63-23592 24-06	TRANSFORMATION OF HEMOPOIETIC CELLS OF TRANSPLANTED ALLOGENOUS BONE MARRON INTO IMMUNOLOGICALLY COMPETENT CELLS IN IRRADIATED DOGS M63-23296 24-16
AMOSPHERE - RADIOLOGY - RADIATION HM-73337 N63-11665 04-23	THYMIDINE, MEMOGLOBIN, AND ERYTHROPOLETIN USED IN INVESTIGATION OF ERYTHROPOLESIS IN IRRADIATED MICE M63-23297 24-16
SAFETY OF PERSONNEL ENGAGED IN DIAGNOSIS AND TREATMENT OF THYROLD GLAND BY 1001ME-131 N63-12392 06-16	BIPMASE NATURE OF EFFECT ON BONE MARROW IN CHRONIC RADIATION INJURY N63-23298 24-16
FIRST AID IN IODINE-131 POISONING - CHEMOTHERAPY N63-12393 06-16	EFFECT OF HOMOLOGOUS BONE MARROW TRANSPLANTATION ON CERTAIN REACTIVITY INDICES AND SURVIVAL OF LETHALLY IRRADIATED RATS N63-23299 24-16
CHANGES IN PERIPHERAL BLOOD DURING RADIATION THERAPY. N63-12394 06-16	RECEPTION OF IONIZING RADIATION BY ORGANISMS
EARLY CHANGES IN SKIN CHRONAXY AND VISUAL ANALYZERS - RADIOBIOLOGY N63-12395 06-16	RADIOLYSIS RADIATION STABILITY OF DREANIC REACTOR COOLANTS
LUMINESCENT-MICROSCOPIC EVALUATION OF BLOOD & BONE MARROW DURING X-RAY IRRADIATION N63-12396 06-16	RADIOLYSIS YIELD OF POLYPHENYLS TRADIATED IN NEUTRON-RICH SPECTRUM OF THE SUSIE REACTOR TID-16999 N63-11828 04-23
TREATMENT OF RADIATION SICKNESS BY HOMO- TRANSPLANTATION OF FRESH AND PRESERVED SPLEEN N63-12397 06-16	ORGANIC REACTOR TECHNOLOGY - COOLANTS, LOOPS, RADIOLYSIS RECLAMATION, COOLING SYSTEM 100-16830 07-23
EFFECT OF SOME PHARMACOPEIAL PREPARATIONS ON RADIATION SICKNESS No. 100 No. 12398 06-16	CHROMATOGRAPHIC ANALYSIS OF POLYPHENYL RADIOLYSIS PRODUCTS FROM REACTOR COGLANTS. TID-17508 M62-13501 08-07
CONCEPT AND DESIGN OF RADIOLOGICAL MONITORING N63-14371 10-01	NITROGEN MONOHYDRIDE AS INTERMEDIATE PRODUCT OF
RADIOPROTECTIVE AGENTS - CORRELATION OF RNA CONTENT AND DEGREE OF RADIORESISTANCE OF CELLS IN	TIL/T-5368 08-07 08-07 08-07
VITRO - RADIGETOLOGY SAN-TOR-63-17 M63-15885 13-16	GAS PHASE RADIOLYSIS OF 2-RUTYNE ASD-TOR-63-65 N62-15924 12-07
PHYSICAL AND RADIOLOGICAL CHARACTERISTICS OF FALLOUT - UNDERGROUND NUCLEAR DETONATION - AERIAL RADIOMETRIC SURVEY PNE-225P N63-17723 16-07	ORGANIC COOLANTS FOR MUCLEAR REACTORS - SANTOMAX AND POLYPHENYL COOLANTS, RADIOLYTIC AND PYROLYTIC EXPERIMENTS

100-16869 N63-18810 18-23	RADIOPROTECTIVE DRUG STUDIES N63-12251 05-16
RADIOLYSIS OF ORGANIC FLUIDS IN SUSIE REACTOR TID-18195 N63-19286 18-07	FIRST AID IN IODINE-131 POISONING - CHEMOTHERAPY N63-12393 06-16
SYNTHESIS OF HIGH ENERGY LIQUID OXIDIZER BY FISSION FRAGMENT RADIOLYSIS	ANATOMICAL CHANGES IN LUNGS FOLLOWING RADIATION EXPOSURE
AN-1048 43348 43310183 144 344 4 N63-23758 24-23	AEC-TR-5500 N63-15490 12-16
RADIOMETER INFRARED HORIZON SCANNING BY ROCKETBORNE RADIOMETER AFCRL-62-1001 N63-10069 01-12	DIFFERENTIAL RADIGSENSITIVITY OF FIRST AND SECOND SET RESPONSES TO ALLOGENIC AND XENOGENIC SKIN GRAFTS IN SUBLETHALLY IRRADIATED NICE USNRDL-TR-636 N63-16352 14-16
IMPRARED FLUX & SURFACE TEMPERATURE DETERMINATIONS FROM TIROS RADIOMETER MEASUREMENTS MSL-10 MS-11881 04-21	REVIEW OF RADIATION PNEUMONITIS IN MEDICAL LITERATURE - LUNG RADIOPATHOLOGY WRU-110 N63-17653 16-16
MARINER 11 MICROWAVE AND INFRARED RADIOMETER RESULTS N63-19151 07-29	RADIOPHYSICS SOVIET PAPERS ON RADIOPHYSICS
UTILIZATION OF RADIOMETER FLOWN IN TIROS III SATELLITE IN VIEWING HURRICANE ANNA, 1961 NASA-TN-D-1713 10-21	JPRS-15517 N63-11523 03-05 RADIO PHYSICS, PLASHA DYNAMICS, AND COMMUNICATION SCIENCE AND ENGINEERING N63-12831 06-09
RESEARCH AND DEVELOPMENT OF NEW TECHNIQUES AND EQUIPMENT FOR ROCKET-BORNE SPECTRORADIOMETRIC	RADIO PHYSICS - RESEARCH AND DEVELOPMENT N63-14658 10-08
SYSTEMS AFCRL-63-249 N63-16464 14-15	RADIO PHYSICS, PLASMA PHYSICS, COMMUNICATION SCIENCES AND ENGINEERING NO3-13011 13-01
ULTRAVIOLET RADIOMETER FOR AUTOMATIC MEASUREMENTS OF SURFAGE TEMPERATURES IN 1000 TO 2500-DEG C REGION	RADIO PHYSICS - RADIO PROPAGATION, PLASMA PHYSICS, COMMUNICATIONS, SURVEILLANCE, AND ANTENNAS
ASD-TR-61-487 N63-16853 14-15 GATED MICROWAVE RADIOMETER FOR MONITORING ELECTRON TEMPERATURE DURING PLASMA AFTERGLOW EXPERIMENTS PLASMA RES. LAB. TECH. REPT.7 N63-16886 14-15	AFESD-TOR-62-116 N63-15973 13-08 RADIOLOGICAL PHYSICS RESEARCH - RADIOISOTOPE METABOLISM, QUANTUM YIELD OF LIQUID SCINTILLATORS, SHIELDING, FILM DOSIMETERS, RADOM METEOROLOGY ANL-6646 N63-17305 15-01
SPECTRAL EMITTANCE OF THERMISTOR DETECTORS OF RADIOMETERS ON TIROS SATELLITES NSL-10, SUPPL. N63-17446 15-21	RADIOPHYSICS - METABOLIC MODEL FOR BONE-SEEKING RADIOACTIVE ALKALINE EARTH ISOTOPES USING MATHEMATICAL POWER FUNCTION N63-17306 15-16
ATMOSPHERIC RADIATION - INFRARED BACKGROUND RADIATION FROM THE EARTH AT HIGH ALTITUDES - BALLOON FLIGHT RADIONETERS N63-18480 17-15	RADIOPHYSICS - MEASUREMENT OF PHOTOLUMINESCENT QUANTUM YIELD OF LIQUID SCINTILLATORS N63-17307 15-23
NIMBUS SATELLITE - MEDIUM AND HIGH RESOLUTION SCANNING RADIOMETERS FOR INFRARED M63-18617 17-30	EFFECT OF SILVER HALIDE CONTENT IN FILM EMULSION ON RADIATION DOSIMETER RESPONSE TO STRONTIUM-90/ YTTRIUM-90 BETA RADIATIONS — RADIOPHYSICS
ULTRAVIOLET TARGET RADIOMETER FOR INCORPORATION IN NIKE-JAVELIN ROCKET INSTRUMENT PAYLOAD N63-19763 19-15	N63-17309 15-23 VERTICAL & TEMPORAL DISTRIBUTIONS OF RADON IN THE ATMOSPHER RELATED TO ATMOSPHERIC KINETICS - METEOROLOGICAL AMAZYSIS - RADIOPHYSICS
ABSOLUTE CALIBRATION OF A SPECTRAL RADIOMETER AFCRL-63-602 N63-22763 23-15	15-21 M63-17310 15-21
AIRBORNE INFRARED RADIOMETER TO DETECT WATER VAPOR	SOVIET UNION BOOKS ON RADIOTECHNOLOGY AND ELECTROMICS - BIBLIOGRAPHY N63-17631 16-01
SM-42977 N63-22939 23-29	RADIO PHYSICS - RADIO PROPAGATION AND ANTENNAS, AND TECHNIQUES OF COMMUNICATION AND SURVEILLANCE N63-20378 20-08
SCINTILLATION METHOD IN RADIOMETRY AEC-TR-9259 N63-11663 04-15	RADIO PHYSICS, PLASMA DYNAMICS, COMMUNICATION SCIENCES AND ENGINEERING RESEARCH
RADIOMETRY OF CURVED MIRROR GAS BEAM LASERS AROD-3309-2 N63-15737 12-23	N63-20521 20-23
PHYSICAL PROPERTIES OF MOON & PLANETS - PLANETARY ATMOSPHERES, RADIOMETRY, REENTRY AND ORBIT CALCULATIONS NASA-CR-50576 M63-18334 17-29	RADIOSENSITIVITY OFFERENTIAL RADIOSENSITIVITY OF FIRST AND SECOND SET RESPONSES TO ALLOGENIC AND XEMOGENIC SKIN GRAFTS IN LETHALLY IRRADIATED MICE USNRDL-TR-619 09-14
RADIOMETRIC CALIBRATIONS IN ULTRAVIOLET SPECTRUM OF LIGHT RADIATION N63-20862 21-23	BEHAVIORAL AROUSAL AND NEURAL ACTIVATION AS RADIO- SENSITIVE REACTIONS USNRDL-TR-624 N63-15516 12-16
TIROS RADIOMETRY AND ITS UTILIZATION FOR DAY AND MIGHT SYMOPTIC METEOROLOGY M63-21353 22-12	RADIOSONDE SA ENDORADIOSONDE
DESIGN OF PYRHELIOHETERS AND ESTABLISHMENT OF STANDARD SCALES FOR SOLAR RADIOMETRY AFCRL-63-887 24-15	ANALYSES OF PACIFIC STORMS BASED ON CONTINUOUS RADAR RECORDS AND SHORT-INTERVAL SERIAL ASCENTS - VOL V, JUNE 5 TO 7, 1961 AFCRL-62-469 N63-10212 01-21
RADIOPATHOLOGY CF RADIATION SICKNESS RADIATION EFFECTS ON ANIMAL TISSUES AND LIFESPAN,	RADIO REFRACTIVE INDEX, SURVEY OF METHODS - RADIOSONDES, REFRACTOMETERS & TEMPERATURE, PRESSURE & AIR DENSITY

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NBS-TN-99 N63-11623	04-15 R	AMJET ENGINE CF JET ENGINE, JET PROPULSION	MARCHAGATIAN	1937
RAWINSONDE DATA FOR SPACE VEHICLE TRAJECTO	DRY SOMAR	SIMPLIFIED THEORY FOR DYNAMIC REL PRESSURES AND FUEL FLOW	ATION OF RAI	NJET
NASA-TH-X-50020 N63-16710	14-20	NACA-RH-E57113	N63-12527	06-11
COMPARISON OF TRACKED RADAR ANGELS AND ATH RADIOSONDE PROFILES	OSPHERE	ALTITUDE EFFECTS ON CAN-TYPE FLAM	EHOLDER IN	RAMJET
AFCRL-63-434 N63-18153	16-21		N63-12530	06-27
SEVERE MEATHER PROJECT - OBSERVATIONS BY R RADIOSONDE, SFERICS, AIRCRAFT AND TIROS SATELLITE - ROUGH RIDER PROJECT	19-17-65	FLIGHT INVESTIGATION OF PENTABORA INCH-DIAMETER RAMJET ENGINE WITH INJECTION	DOWNSTREAM I	FUEL
NSSP-14 N63-18277	SOLUTION .	EGINTION OF LEG TO MORTHER	N63-12543	06-26
TIME SECTION AND HODOGRAPH ANALYSIS OF CHU ROCKET AND RADIOSONDE WINDS AND TEMPERATUR N63-19679	E	FEASIBLE SOLAR POWERED AIRCRAFT W RATIO FLYING WING & RAMJET THRUST DESIGN & PERFORMANCE ANALYSIS ARL-62-360, PT. 1		ION -
RADIOSONDE OBSERVATIONS TO DIAGNOSE AMOUNT CLOUDS IN ATMOSPHERIC LAYERS N63-20046		KINETICS IN HYDROGEN AIR FLOW SYS CALCULATION OF AUTOIGNITION DELAY		SONIC
EFFECTS OF RADIUM RADIATION EXPOSURE ON HU	JMAN BODY	KINETICS OF HYDROGEN AIR FLOW SYS	688-A	MB .
SAN-TDR-63-1 H63-17434	15-16	OF EXHAUST NOZZLE FLOW FOR RAMJET		DOMAR
NUCLEAR CHEMISTRY AND GEOCHEMISTRY RED - N CHARGE, URANTUM-238 FISSION YIELD, RADIUM- MANGANESE TUFA, AND FISSION PRODUCED ZIRCO	-226 IN	HYPERSONIC SHOCK WAVES AS A FUNCT ATTACK & RAMJET CAPABILITIES	ION OF ANGL	E OF
N63-18386	17-07	RAMJET ENGINE BYPASS FLOW & THROA	T DIFFUSER	NOZZLE
GROUND AND AIRBORNE RADONES - BIBLIOGRAPHY		MODEL TESTS AT MACH 7 AEDC-TOR-63-173	N63-20132	20-23
N63-17632	0.	ANJET MISSILE	ERTH C	Mr.
CF RARE GAS		GUN LAUNCHED HYPERSONIC RAMJET PE	N63-20024	
DEVICE FOR MEASUREMENT OF THORON IN THE 88 UR-619 M63-11844	04-16 F	LAMP THE STATE OF THE SECOND STATE OF THE SECO	11790 10/1YM	12.
RADIOLOGICAL PHYSICS RESEARCH - RADIOISOTO METABOLISM, QUANTUM YIELD OF LIQUID SCINTI SHIELDING, FILM DOSIMETERS, RADOM METEOROL ANL-6646 N63-1730?	LLATORS,	PERFORMANCE OF SUPERSONIC RAMP-TY WITH RAM-SCOOP THROAT BLEED AND Y BOUNDARY LAYER REMOVAL AT LOW SUP NACA-RM-E56126	ARYING FUSE	LAGE
VERTICAL & TEMPORAL DISTRIBUTIONS OF RADOR	Mer.	RUNWAY, TAXIWAY, AND PARKING RAMP SURVEYS AT AIR FORCE BASES	ROUGHNESS	DATA -
ATMOSPHERE RELATED TO ATMOSPHERIC KINETICS METEOROLOGICAL ANALYSIS - RADIOPHYSICS		WADD-TR-60-470, PT. 3	N63-20490	20-10
N63-17310	15-21	SUSTAINED OSCILLATION OF SYSTEMS	WITH DRY FR	ICTION
RAIN RAIN EROSION ON SURFACES IN THE SUPERSONIC WGL PAPER-61 N63-10050		AND RAMP INPUT	N63-13855	
FREQUENCY DISTRIBUTION OF RAIN SHOWERS BY		S REENTRY ANALYSIS FRANCISCO	WOTE AN HOOM	AF
ECHDES NASA-CR-50172 N63-17139		CODE ACTUATED RANDON LOAD APPARAT		GOOD A
RAINFALL DETERMINATIONS BY WEATHER RADAR (DN	FATIGUE TESTS ON LARGE STRUCTURES	N63-10066	01-33
METEOROLOGICAL SATELLITE NASA-CR-50193 N63-1733:	5 15-21	FATIGUE OF ALUMINUM ALLOY SPECIME	NS UNDER RA	NDOM
WIND AND RAIN PROFILES FOR WEATHER STATIO	N AT	AXIAL LOADING	N63-10635	02-33
RSIC-36 N63-1970	7 19-21	ESTINATION OF FATIGUE LIFE FROM		BAND
RAIN EROSION EFFECTS ON AIRCRAFT AND HISS STRUCTURAL MATERIALS AND PROTECTIVE COATH		A CONTRACTOR OF THE PROPERTY O	N63-10663	02-33
SUBSONIC AND SUPERSONIC SPEEDS SB-62-6 N63-2003;	2 19-17	ALUMINUM ALLOY	S Sall Milliannian are in	02-33
ANNUAL WEATHER VARIATION - PRESSURE PATTER	RNS AND	RE VARIABLES NOS-12/20 00-	M63-10943	En
RAINFALL RSIC-61 N63-2166	7 22-21	OPTIMUM AUTOMATIC CONTROL	N63-12086	05-09
HYCROPHYSICAL MECHANISMS OF RAIN FORMATION	N IN	RANDOM EXCITATION OF STEEL PANEL, FLUCTUATIONS, GRAZING INCIDENCE,	ACOUSTIC PI	ANE
WARM CLOUDS JPRS-21691 N63-23690	6 24-21	MAYES AND NOISE FROM AIR JET	N63-13495	08-33
RAINDROP RAINDROP-SIZE DISTRIBUTIONS AND VARIATION	CAUSED	RESPONSE OF LIGHTLY DAMPED STRUC PRESSURE FIELD		
BY FALLING DISTANCE - SPECTROMETRIC ANALY: AFCRL-62-1091 N63-1228	9 05-21	FATIGUE OF ALUMINUM ALLOYS UNDER UTIA-84	RANDON LOAD	16-33
RAMAN SPECTROSCOPY CF INFRARED SPECTROSCOPY	T. WAGINER	The other way and the second of the		4
CF INFRARED SPECTROSCOPY		RESPONSE OF CANTILEVER BEAM TO R CORRELATION OF SEMI-EXPERIMENTAL MATHEMATICAL MODEL	AMALYSIS & N63-20724	

	NONLINEAR METAL STRUCTURAL MATERIAL	MATION IN	01-82-0258	N63-21696	22-20
	ASD-TDR-63-646 N63-21	705 22-33	RANGE SA LONG RANGE		
R	ANDOM MATRIX POLYNOMIALS ENCOUNTERED IN STUDY OF DIS FUNCTION OF SPACINGS OF EIGENVALUES OF	TRIBUTION RANDOM	SA MISSILE RANGE CF DIRECTION FINDER	05208-2-101-A	A SCALL
	MATRIX BNL-757/T-280/ N63-13	TOTAL PRODUCTION	CF LABORATORY		
R	ANDOM NOISE RESPONSE OF NONLINEAR SYSTEMS TO EXCITA RANDOM NOISE N63-20		COORDINATES OF POINTS ON GEODET: SATELLITE TRACKING	TO DATA HISTMI	G
	FORKER-PLANCK EQUATION APPLIED TO NONLI DYNAMIC SYSTEMS SUBJECTED TO EXCITATION WHITE RANDOM NOISE N63-20	NEAR BY	LATERAL AND LONGITUDINAL RANGES GLOBAL REENTRY VEHICLE EFFECTS OF BANKING POSITION AND DURATION	OF BANK ANGL	
R	ANDOM NUMBER ELECTRONIC GENERATOR OF RANDOM NUMBERS		RADAR ABSORPTION EFFECTS MEASUR	ED IN A FLIG	
	NEL-1152 N63-13		TR62-2098	N03-14194	09-08
10		522 23-20	RANGING SYSTEM, CODED PHASE-COM	EUDORANDOM CI ERENT COMMUN	ODED ICATIO
R	ANDOM PROCESS CF STOCHASTIC PROCESS	direct 100	JPL-TR-32-67		
	GENERAL THEORY DESCRIBING DISCONTINUOUS AND APPLICATION TO HYDRODYNAMIC INHOMOG SUCH AS COMBUSTION WAVES, COMBUSTION ZO	ENEITIES	HYPERVELOCITY STUDIES USING TWO BALLISTIC RANGE SM-41379-4		12-10
		263 05-26			12-10
	EFFECT OF GRID AND CONSTRICTION FRICTIO PROPAGATION VELOCITY, HEAT EXCHANGE AND SHOCK DISCONTINUITY FORMATION IN REACTI	ACOUSTIC	ELECTRONS PENETRATING ALUMINUM, SILICON DIOXIDE NRL-5828	STLICON AND	15-20
		266 05-26			
	PERFORMANCE CRITERIA FOR LINEAR CONSTAN COEFFICIENT SYSTEMS WITH RANDOM INPUTS CONTROL OPTIMIZATION	T- - FLIGHT	AND MINIMUM ACQUISITION-TIME SY: NASA-CR-50762	STEMS	18-0
	ASD-TDR-62-470 N63-13	518 08-20	ACCURACY OF SIMULTANEOUS ESTIMATION OF STREET	TES OF RANGE	AND
	DIGITAL TECHNIQUES FOR STUDYING THE ZER INTERVALS OF RANDOM PROCESSES - PROBABI		RADC-TDR-63-306	N63-21230	21-0
	DENSITY AF-102 N63-14		PILOT PERFORMANCE IN ESTIMATION AND ALTITUDE	OF AIRCRAFT N63-22056	RANGE 22-1
	LEAST SQUARES METHOD FOR RANDOM FRACTIO REPLICATION DESIGN N63-14			N63-22101	22-0
	ASPECTS OF CONSTRAINED RANDOMIZATION - MATHEMATICAL STATISTICS AND PROBABILITY ARL-63-18 N63-15	THEORY 575 12-20	AUDIOFREQUENCY RESISTANCE OF NO SUPERCONDUCTORS - FLUX TRAPPING	AS LOSS MEC	
	ZERO-CROSSINGS, PEAKS AND STATISTICAL M RANDOM RESPONSES OF NONLINEAR SYSTEMS		AUDIOFREQUENCY GENERATORS USING RECTIFIER INVERTERS		
		104 20-23	MEL-11/5	N63-23012	
R	ANDOM VARIABLE EFFECT OF RANDOM VARIABLES OF DRIFT PAR	AMETER ON	RANGE DISTRIBUTION OF RADAR-ECH METEORS AFCRL-63-733		
	HUMAN CONTROL OF STOCHASTIC PROCESS MRL-TDR-62-72 N63-11	405 03-14			White of
	VALIDITY CONDITIONS FOR RANDOM-VARIABLE TWO-WAY CLASSIFICATION WITH UNEQUAL VAR		EFFICIENT EARTH ORBIT FERRY SER	VICE	24-0
	AROD-2579-13 N63-12		RANGE COMPUTER	Villa Calling	
	CALCULATION OF PROBABILITY DENSITY FUNC SUMS AND PRODUCTS OF RANDOM VARIABLES AFCRL-62-795 N63-13	TION OF 020 07-20	MOD-II RANGING EQUIPMENT JPL-TR-32-337		01-2
	ARITHMETICAL SIMPLIFICATION OF BINOMIAL		RANGE MEASUREMENT AN ACQUIRABLE CODE FOR RANGE ME SPACECRAFT	ASUREMENT OF	01-2
	METHODS OF SOLVING RANDOM EQUATIONS WIT STOCHASTIC QUANTITIES RELATIVE TO LAWS		VISUAL MID-AIR COLLISION PREVEN	34 0.7 - 1.1100-04	TUDE AN
	COMPOSITION ASO-TDR-63-63 N63-14	301 10-20	RANGE SAFETY SOUNDING ROCKET PAYLOAD FOR WAK		TEST
	RANDOM VARIATION OF ALTITUDE OF COMMERC TRANSPORTS USING AUTOPILOT ALTITUDE CON		ASSEMBLY, SAFETY, HOLD, & LAUNC TDM-W-11,774, REV. 1	H PROCEDURES N63-15424	12-0
	REDUNDANT MEASUREMENTS FOR SPACE MAVIGA RANDOM VARIABLES, STATE VECTOR, BAYES E	TION - STIMATOR	RANGEFINDING AUTOMATIC OPTICAL RANGE FINDER ARL-63-48	N63-17593	
	AIAA PAPER-63-333 N63-20 FAST PROCEDURE FOR GENERATING EXPONENTS VARIABLES	757 21-29 AL RANDOM		TH SEISMONET	
	2002 25311				

5-08

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20

8

IMPACT TESTS	N63-17034	15-19	JPL-TR-32-384/REV./		
RANGER VEHICLE IN LUNAR EXPL	ORATION N63-19536	19-32	CF POWER GENERATOR SPACE RADIATOR STUDY - CONDEN	SER-RADIATORS FOR	
RANGER SPACECRAFT DESIGN	N63-19537	19-32	RANKINE CYCLE SPACECRAFT PONE ER-4544	N63-12200 05-06	
RANGER LUNAR LANDING VEHICLE	N63-19541	19-32	HIGH TEMPERATURE LIQUID METAL	HEAT TRANSFER -	
MIDCOURSE TRAJECTORY-CORRECT FOR RANGER LUNAR LANDING VEH	ICLE		LIQUID METAL TWO-PHASE FLOW A APPLIED TO RANKINE CYCLE TURB	OGENERATOR 11-13	
NASA-CR-50727	N63-19783	19-27	SUNFLOWER CONVERSION SYSTEM U		
RANGER PROJECT RANGER SPACECRAFT LUNAR SEIS			RANKINE SYSTEM NASA-CR-51779	N63-22577 23-06	
SPACE PROGRAMS SUMMARY NO. 3 DEC 1962 - SPACE EXPLORATION SCIENCES	7-18 - VOL 6, SE PROGRAMS & SPAC	PT TO	WAVE RESISTANCE AND MOMENT VA	LUES FOR SUBMERGED AL WAVE CONDITIONS N63-11645 04-20	
JPL-SPS-37-18, VOL. VI	N63-12341	05-29	RARE EARTH		
PREFLIGHT ANALYSIS AND LUNAR RANGER SPACECRAFT TV SYSTEM JPL-TR-32-384	PHOTOMETRIC MOD N63-13449		SA CERIUM SA CERIUM 144 SA DYSPROSIUM	NUCLEAR RESIDENT	
SOLAR-CELL POWER SYSTEMS TES			SA ERBIUN SA FUROPTUN	ANTHREE TARRANCE	
SPACE PROGRAMS SUMMARY NO. 3	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.		SA HOLNIUM SA NEODYMIUM	CALLE HINA BANK	
TO JAN 1963 - SPACE EXPLORAT SCIENCES - DSIF, RANGER, MAR JPL-SPS-37-19, VOL. VI	ION PROGRAMS & S	PACE	SA PRASEODYNTUM	CANDE NA JAMAGESTA	
UNMANNED LUNAR EXPLORATION S SURVEYOR, AND PROSPECTOR PRO	PACECRAFT - RANG	37	SA THULIUM EFFECT OF RARE-EARTH SCAVENGE TUNGSTEN AND HOLYBDENUM	RS ON PROPERTIES OF	
NASA-TH-X-50135	N63-18863	18-29	DR I-2068	N63-10289 01-18	
RANGER PROJECT JPL-TR-32-141	N63-19535	19-32	BORIDES OF RARE EARTH METALS AEC-TR-5264	N63-10478 01-18	
EARLY RANGER INTERPLANETARY	PLASMA EXPERIMEN N63-19538	19-32	METABOLISM OF RADIOISOTOPES OF ALKALINE EARTHS, AND HEAVY ME AEC-TR-5236		
RANGER PROJECT OPERATIONAL P	REPARATIONS N63-19539	19-32	CRYSTALLINE ELECTRIC FIELD EF	FECTS ON RARE EARTH	
BOOSTER ROCKET FOR RANGER PR	N63-19540	19-32	MOMENTS AFCRL-62-945		
DEEP SPACE INSTRUMENTATION F		36.	EFFECT OF CUBIC CRYSTAL FIELD	STATE OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE P	
RANGER PROJECT LAUNCH TO MISSION COMPLETION	N63-19542	19-32	OF F-ELECTRON TERMS - APPLICA PROPERTIES OF RARE EARTH IONS AFCRL-62-929	TION TO MAGNETIC	
COMPUTER PROGRAMMING FOR LUI FLIGHT PROGRAMS - RANGER/MAP AIAA PAPER 63-410	IAR AND INTERPLA		ABUNDANCES OF THE FOURTEEN RAPPLUS YTTRIUM AND SCANDIUM IN GA-3961	ARE EARTH ELEMENTS	
BOOST VEHICLE TRAJECTORIES F	FOR RANGER AND M	ARINER	MAGNETIC AND SPECTROSCOPIC PI	STANDARD CONTROL DATE:	
AIAA PAPER-63-409	N63-20496	20-34	EARTH IONS BY HARTREE-FOCK CO	NAS-14269 10-23	
TRAJECTORY OPTIMIZATION FOR PLANETARY MISSIONS - RANGER AIAA PAPER-63-408		21-29	METALLURGICAL RESEARCH - RARI THORIUM, AND REFRACTORY ALLO	YS - SOLID-STATE	
EXPLORATION OF LUNAR SURFACE SOFT-LANDING VEHICLE OF RANGE		FOR	DIFFUSION BONDING AND MELTING USBM-U-1001	N63-14294 10-18	
-941,01 SECAN CATERNAY 10, 90	N63-21346	21-29	ALLOYS OF RARE EARTH METALS . THERMODYNAMICS, METALLURGY,	AND X-RAY DIFFRACTION	
RANGER III LUNAR PROBE RANGER PROJECT - TELEVISION LUNAR PHOTOMETRIC MODEL - RA			OF PRASEODYMIUM, NEODYMIUM, ARL-63-15	N63-15549 12-18	
SPACE PROBES JPL-TR-32-384/REV./	1. 国际,在75 E4 L2 E 1.8 HB		RARE EARTH, HAFNIUM, THORIUM MELTING RESEARCH CONSIDERATIONS USBN-U-1031		
RANGER PROJECT - FLIGHT PLAI AND RESULTS OF RANGER III TO NASA FACTS-A-62		MENTS, 14-29	OXIDATION RESISTANCE OF HOLY YTTRIUM, SAMARIUM AND ZIRCON	BDENUM ALLOYED WITH IUM - RARE EARTH N63-16175 13-18	
RANGER IV LUNAR PROBE AGENA-B RANGER PROGRAM LAUN	CH PAD DANAGE RE	PORT	YTTRIUM BEHAVIOR IN RARE-EAR	CONTA TREE TO THE PARTY.	
FOR ATLAS/AGENA-B RANGER IV			AND EFFECT OF SEQUESTRANT BM-RI-6242	N63-16583 14-07	
RANGER PROJECT - TELEVISION LUNAR PHOTOMETRIC MODEL - R	SYSTEM ANALYSTS	AND	RARE EARTH, YTTRIUM, AND SCA	ATTER	
SPACE PROBES	IDES FREE TOURS		GA-4221 AVECATOS - PLACTED	102-101	

TERPERATURE PROSE SHO EXAMINATION OF

CF XENON DIFFUSION MEASUREMENTS OF RADIOACTIVE RARE-GASES IN SOLIDS EUR-111-E N63-10781 02-15
MASS SPECTROMETRIC STUDY OF HOMONUCLEAR AND HETERONUCLEAR RARE GAS MOLECULE ION
RARE GASES IN SUN, ATMOSPHERE, AND METEORITES, N63-16224 13-3
GAS PLASMAS AROD-2267-7 N63-21009 21-3 HYDROGEN ION BEAM NEUTRALIZATION - NEUTRAL,
POSITIVE, AND NEGATIVE IONS FROM RARE GAS TARGET ASD-TDR-63-41 N63-22638 23-23
RAREFIED GAS EFFECT OF SLIP ON LAMINAR BOUNDARY LAYER NEAR
LEADING EDGE OF A FLAT PLATE IN HYPERSONIC RAREFIED GAS FLOW FLIGHT SCIENCES LAB. TM-8 N63-10089 01-11
FLIGHT SCIENCES LAB. TM-8 N63-10089 01-11 AERODYNAMIC FORCES ACTIMG ON A BLUNT BODY IN A
SUPERSONIC RAREFIED GAS FLOW HE-150-203 N63-10615 02-02
DRAG OF SPHERES IN HYPERVELOCITY RAREFIED GAS FLM AEDC-TDR-62-205 N63-10673 02-02
TECHNIQUES USED TO TREAT RAREFIED GASES BY MEANS OF KINETIC THEORY AND FREE EXPANSION PROBLEM AFCRL-62-1086, REPT. 7 N63-11003 03-11
A 17-INCH SHOCK TUBE FOR RAREFIED GAS DYNAMICS N63-11731 04-1
FLOW VISUALIZATION AND QUANTITATIVE GAS DENSITY MEASUREMENTS IN RAREFIED GAS FLOWS
ASD-TDR-62-793 N63-11923 04-15
HEAT EXCHANGE DURING FREE FLOW AROUND HORIZONTAL CYLINDER IN RAREFIED AIR FTO-TT-62-135/162 N63-15662 12-19
RAREFIED GAS FLOW THROUGH CASCADE OF FLAT PLATES - APPLICATION TO VACUUM PUMPING N63-16494 14-11
PRESSURES IN STAGNATION REGIONS OF BLUNT BODIES IN VISCOUS LAYER TO MERGED LAYER REGIMES OF RAREFIED GAS FLOW
AEDC-TDR-63-168 N63-20600 20-11 HEAT TRANSFER FROM CYLINDER WITH FREE MOTION OF RAREFIED GAS IN UNBOUNDED SPACE
FTD-TT-62-50/18264 N63-23076 24-13 HEAT TRANSFER COEFFICIENTS IN SUPERSONIC TUBE
FLOWS OF RAREFIED GAS FTD-TT-62-974/16264 N63-23634 24-13
RAREFIED GAS DYNAMICS REENTRY PHYSICS, RAREFIED GASDYNAMICS, PLASMA PHYSICS, SPACE SCIENCES N63-10601 02-81
PLANE POISEUILLE FLOW OF RAREFIED GASES IN TWO- DIMENSIONAL CHANNELS
AFRONAUTICAL ENG. REPT619 N63-12098 05-11 MAGNETIC FIELD OF LINE CURRENT IN TRANSVERSE
RAREFIED PLASMA STREAM NASA-TN-D-1551 N63-12949 07-24
RADIATIVE LOSSES EVALUATED FOR ALL SIGNIFICANT IONS PRESENT IN INTERPLANETARY GAS FROM 4 TO 215 RADII - SOLAR CORONA ENERGY BALANCE
N63-14231 10-2
FLOW FIELD REVIEW AND HYPERSONIC RAREFIED FLOW AT LEADING EDGES N63-14380 10-11
INVARIANT IMBEDDING & RAREFIED GAS DYNAMICS - COUETTE FLOW RM-3497-ARPA N63-14870 11-11

-GASES

02-15

09-07

13-21

21-24

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S FLOW

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04-11

04-15

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23-23

01-11

ES

RE

RAREFIED GAS DYMAMICS - MOLECULAR BEAMS AND SURFACE INTERACTIONS, FREE-MOLECULAR FLOW, FLUID RECHANICS, KINETIC THEORY M63-18819 18-11

RAREFIED GAS DYNAMICS - KINETIC THEORY, SOLUTIONS
OF BOLIZMANN EQUATION, MOLECULAR BEAMS AND SURFACE
INTERACTIONS M63-21557 22-11 PA MITASTEANTIN

GAS DYNAMICS - ASYMPTOTIC THEORY OF BOLTZMANN MO3-21559 22-24

GAS DYNAMICS - CONVERGENCE & ERROR ESTIMATION OF ITERATIVE SOLUTION TO NONLINEAR BOLTZMANN N63-21560 22-24 EQUATION

GAS DYNAMICS - GENERALIZED VALIDITY OF BOLTZMANN FOUNTION FOR IONIZED GASES N63-21561 22-24

GAS DYNAMICS - CRITERION FOR DEGREE OF DEPARTURE FROM EQUILIBRIUM IN RAREFIED GASES N63-21562 22-24

GAS DYNAMICS - NONEQUILIBRIUM STATISTICAL N63-21563 22-11

GAS DYNAMICS - RELAXATION OF GASES TOWARDS CONTINUUM FLOW N63-21564 22-11

MOLECULAR APPROACH TO RAREFIED GAS DYNAMICS N63-21565 22-11

GAS DYNAMICS - SOUND PROPAGATION ACCORDING TO KINETIC THEORY OF GASES N63-21566

GAS DYNAMICS - COLLISION INTEGRAL IN MOMENT

HEAT TRANSFER IN RAREFIED GAS BETWEEN PARALLEL PLATES AT LARGE TEMPERATURE RATIOS N63-21568 22-11

GAS DYNAMICS - STRUCTURE OF STRONG SHOCK WAVES IN MO3-21571 22-24

GAS DYNAMICS - SHOCK WAVE THICKNESS BY MONTE CARLO N63-21572 22-24

AS DYNAMICS - HOLECULAR BEAMS AND SURFA 22-23 INTERACTIONS N63-21574

GAS DYNAMICS - REVOLVING DISKS IN STUDY OF INTERACTION BETWEEN MOLECULES AND SURFACE M63-21578

GAS DYNAMICS - SCATTERING OF GAS MOLECULES ON VARIOUS SURFACES N63-21579

GAS DYNAMICS - GAS-SURFACE INTERACTIONS USING MODULATED ATOMIC BEAM N63-21580 22-23

MOMENTUM TRANSFER BY MOLECULAR BEAM TECHNIQUES -GAS DYNAMICS N63-21981 22-2

GAS DYNAMICS - CHARACTERISTICS OF AERODYNAMIC

RAREFIED GAS DYMAMICS - GAS FLOW N63-21586 22-11

RAREFIED GAS DYMAMICS - AERODYNAMIC FLOW REGIMES FOR NOTION OF ROCKETS OR SATELLITES IN IONOSPHERE, PLASMA WAVE MOTIONS & ION SHOCK WAVE FORMATION N63-21587 22-24

RAREFIED GAS DYNAMICS - PERTURBATIONS OF AMBIENT MEDIUM BY MOTION OF SATELLITE OR HYPERVELOCITY VEHICLE N63-21588 22-3

RAREFIED GAS DYNAMICS - WAKE OF CONDUCTING PROLATE SPHEROID IN MAGNET-FREE RAREFIED PLASMA N63-21589 22-24

RAREFIED GAS DYNAMICS - ELECTROMAGNETIC FORCES ON CONDUCTING HONFERROMAGNETIC SPHERICAL EARTH SATELLITE IN UPPER ATHOSPHERE

NG 304 3 THOU N63-21590 22-29

RAREFIED GAS DYMAMICS - TECHNIQUES FOR LOCAL CHARGED PARTICLE DENSITY AND TEMPERATURE

HEASUREMENT IN FLOWING PLASMA STREAMS N63-21591 22-24

RAREFIED GAS DYNAMICS - PLANE POISEUILLE FLOW BETWEEN THO PARALLEL PLATES WITH A MINIMUM AS FUNCTION OF KNUOSEN NUMBER N63-21592 22-11

RAREFIED GAS DYNAMICS - HEAT TRANSFER FROM SPHERE FOR ENTIRE RANGE OF KNUDSEM NUMBER BASED ON BOLTZMANN EQUATION N63-21593 22-13

RAREFIED GAS DYNAMICS - SOLUTION OF BOUNDARY VALUE PROBLEM OF BOLTZMANN EQUATION AT ARBITRARY KNUDSEN NUMBER BY TRANSFER EQUATIONS

RAREFIED GAS DYNAMICS - FIRST-ORDER SLIP EFFECTS ON SKIN FRICTION AND HEAT TRANSFER FROM PARALLEL FLOW OF REACTING GAS N63-21595 22-11

RAREFIED GAS DYNAMICS - STEADY, AXISYMMETRIC, HYPERSONIC FLOW OF RAREFIED GAS PAST A SPHERE M63-21596 22-11

RAREFIED GAS DYNAMICS - SHARP LEADING EDGE PROBLEM IN RAREFIED HYPERSONIC FLOW N63-21597 22-11

RAREFIED GAS DYNAMICS - LOW DENSITY FLOW MEAR LEADING EDGE OF FLAT PLATE IN HYPERSONIC STREAM N63-21598 22-11

RAREFIED GAS DYNAMICS - SECOND-DROER BOUNDARY
LAYER THEORY APPLIED TO HEAT TRANSFER AT
STAGNATION POINT OF SPHERE IN SUPERSONIC FLOW
N63-21599 22-11 SECRETARIC OUTPOTS 19 ALT

RAREFIED GAS DYNAMICS - TRANSITION FLOW IN GASES OF SIMPLE, NOWREACTING, ELECTRICALLY NEUTRAL MOSECULES M63-21600 22-11

RAREFIED GAS DYNAMICS - EXPERIMENTAL DETERMINATION OF SPHERE DRAG COEFFICIENTS IN SUPERSONIC RAREFIED GAS N63-21601 22-11

RAREFIED GAS DYNAMICS - FLOW REGIME BETWEEN
CONTINUUM FLOW AND FREE MOLECULAR FLOW
N63-21602 22-11

RAREFIED GAS DYNAMICS - DRAG COEFFICIENT DF CIRCULAR CYLINDER - CHARACTERIZATION OF FLUID MOMENTUM EXCHANGE N63-21603 22-11

FLOW OF RAREFIED GAS OVER DOSTACLES OF SMALL DIMENSIONS ENVISIONED USING NETWORK OF FINE WIRES N63-21604 22-11

RAREFIED GAS DYNAMICS - BORDERS OF FREE MOLECULAR TRANSITION REGION N63-21605 22-02

RAREFIED GAS DYNAMICS - SURFACE PRESSURE & PITOT PRESSURE DISTRIBUTION IN NEIGHBORHOOD OF LEADING EDGE OF THIN FLAT PLATE N63-21606 22-11

RAREFIED GAS DYNAMICS - HYPERSONIC SHOCK TUNNEL DATA - BLUNT AXISYMMETRIC & TWO-DIMENSIONAL BODIES AND SHARP FLAT PLATE DATA N63-21607 22-11

RAREFIED GAS DYNAMICS - REASUREMENTS OF STAGNATION HEAT TRANSFER USING CALORIMETRIC TRANSIENT METHOD N63-21608 22-11

RAREFIED GAS DYNAMICS' - ARC MEATER OPERATING CONDITIONS AND GAS STREAM IN ARC MEATED, LOW DENSITY WIND TUNNEL M63-21609 .22-11

RAREFIED GAS DYNAMICS - NOZZLES OF VARYING LENGTHS AND ANGLES OF DIVERGENCE STUDIED IN LOW DENSITY WIND TUNNEL NA3-21610 22-02

RAREFIED GAS DYNAMICS - MEASUREMENTS FROM SPHERICAL LANGUIR PROBE INTERPRETED FOR ELECTRON DENSITY, TEMPERATURE AND ION DENSITY MA SEATHS M63-21611 - 22-14

RAREFIED GAS DYNAMICS - USE OF LANGMUIR PROBE IN LOW DENSITY PLASMA FLOW N63-21612 22-24

RAREFIED GAS DYNAMICS - ELECTRON BEAM DENSITY.

RAY

LUMINESCENCE SPECTRA	M63-21613	22-24	IMBALANCE IN RATS AAL-TDR-62-62 N63-17097 15-1
MOMENTUM AND ENERGY EXCHANGE OF ROTATING SURFACE - EQUIPMENT AND AST-3530-101-63U	PROBLEM AN	22-11	ANIMAL STUDY - RAT BEHAVIORAL RESPONSE TO EVALUATINFLUENCE OF ZERO GRAVITY
T DISTRIBUTION AND METABOLIC FATE	OF 1-1-01ME		NADC-MA-6303 N63-17329 15-1 EFFECTS OF COLD ACCLIMATIZATION ON LIVER DI- AND
HYDRAZINE AMRL-TDR-62-110	N63-10469	01-16	TRI-PHOSPHOPYRIDINE NUCLEOTIDES - ENZYMES IN RAIS AAL-TOR-62-40 N63-17648 16-9
NUTRIENT CONTENT OF VARIOUS ALGATO SUPPORT GROWTH IN RATS AND CH			EFFECT OF ANTIOXIDANTS ON SURVIVAL TIME OF RATS EXPOSED TO RADIATION - DIET AND RADIATION RESISTANCE N63-17674 16-1
CHANGE OF ADRENALIN, ACETYLCHOLI SEROTONIN IN RATS SUBJECTED TO A JPRS-16956	ADIAL ACCEL	ERATION	AMRL-TOR-63-28 CARBONIC AMHYDRASE INHIBITION IN EXERCISING RATS PHYSIOLOGICAL EFFECTS IN STRESS CONDITIONS SAM-TOR-63-22 N63-18880 18-1
RADIATION SICKNESS - EFFECT OF E EFFECT OF ACCELERATIONS AT HOMEN JPRS-17202		ATION	INTRAVASCULAR AND EXTRAVASCULAR DISTRIBUTION OF FLOURESCENT LABELLED PROTEIN SERUMS, ENZYMES, AND HORMONE PREPARATIONS INJECTED INTO RATS
CENTRAL DEPRESSING ACTION OF MED THIOPENTAL DURING ACUTE RADIATIO AND RABBITS		IN RATS	N63-18968 18-1
ACCELERATIONS CREATED AT MOMENT	OF IRRADIAT	ION	OF IRRADIATED RATS N63-18969 18-1
OF ANIMALS AND COURSE OF ACUTE N	N63-11950	04-16	DEEP HYPOTHERMIA IN RATS - STUDIES ON SURVIVAL AN TOLERANCE TO CIRCULATORY ARREST AL-TDR-62-43 N63-18978 18-1
RADIOSENSITIVITY OF BIOELECTRIC STOMACH AND CAECUM USNRDL-TR-611	FUNCTION OF N63-13079	07-16	MOREPINEPHRINE THERMOGENESIS IN WARM AND COLD ACCLIMATIZED RATS - CARDIOVASCULAR AND METABOLIC
SODIUM DEPENDENCE OF BIOELECTRIC	-Daylow Public	WARD LES	EFFECTS AAL-TDR-62-51 N63-19057 18-1
STOMACH - RADIATION DAMAGE USNRDL-TR-608	N63-13573	08-16	PROTECTION AGAINST TRAUMATIC SHOCK BY PRETREATHEN WITH ADMENOCORTICOTROPHIC HORMONE - RAT SURGERY
DIFFERENTIAL EFFECT OF SPECIFIC REJECTION OF ALLOGENIC AND XENOG	ENTE SKIN C	RAFTS	SAM-TDR-63-10 N63-19096 18-1
BY X-IRRADIATED MICE USNRDL-TR-625	N63-14712	10-16	EFFECT OF TEMPERATURE ON ERYTHROCYTE FORMATION RATE IN RATS AAL-TOR-62-20 N63-19639 19-
DENTAL LESIONS IN RATS DUE TO X- RADIATION EFFECT ON TEETH USNRDL-TR-620		RONS - 11-16	DESOXYRIBOSENUCLEIC ACID /DNA/ SYNTHESIS IN
BIOLOGICAL EFFECT OF SOLAR FLARE	RADIATION N63-15135	11-16	EUR-308.E N63-20465 20-
EFFECT OF CHRONIC EXPOSURE TO HY PRESSURE AND THYROID FUNCTION OF			NADC-MA-6307 M63-20520 20- X-RAY IRRADIATION EFFECT ON GLYCOGEN CONTENT OF
RATS SAH-TDR-63-4		11-16	RAT BRAIN N63-20618 20-
GAS ANALYSIS OF GASEOUS EXCHANGE ECOLOGICAL SYSTEM OF ALGAE, FUNG AMRL-TDR-62-139		12-16	TRANSPLANTATION OF HEMOPOIETIC TISSUE - EMBRYONIC LIVER OR BONE MARROW CELLS TO RATS - DEATH RATE JPRS-20948 N63-21025 21-
RADIATION EFFECT AND RADIATION P	Aller Silver	F94088	MAGNESIUM METABOLISM IN RATS - TRANSPORT MECHANIS IN VIVO AND IN VITRO AAL-TDR-62-41 N63-21396 22-1
RADIATION PROTECTION - RADIATION THIOPHOSPHATE OXIDIZING ENZYME S	EFFECT ON	rs	RESISTANCE OF ADRENALECTOMIZED AND HYPOPHYSECTOMIZED RATS TO ACUTE DXYGEN DEFICIENCY - SPACE BIOLOGY N63-21534 22-1
EFFECT OF CHEMICAL COMPOUNDS ON CHANGES IN ENZYME ACTIVITIES IN TISSUES		NOUCED 15-16	PULMONARY EFFECTS OF COLD ACCLINATIZATION AND NORPINEPHRINE CALORIGENESIS IN RATS AAL-TOR-62-57 M63-21680 22-
RADIATION PROTECTION - RADIATION REDUCTASE ACTIVITY IN RATS	EFFECT ON N63-17039	15-16	LOCAL & TOTAL CIRCULATORY ALTERATIONS ACCOMPANYS
ARCTIC SURVIVAL RATIONS - DIURNA LIVER GLYCOGEN CONTENT AND ENZYM	E ACTIVITIES		BOTH - EFFECT ON RATE OF DENITROGENATION SAM-TDR-62-113 N63-21860 22-
RATS FED PERMICAN MEALS AAL-TOR-62-54	N63-17093	15-16	TOXICITY OF CHLORINATED HYDROCARBONS IN INSECTICIDES TO PHOSPHORYLATION PROCESSES IN RAT
ALTERATION OF PROTEIN METABOLISM COLD EXPOSURE AAL-TDR-62-60	CONTRACTOR STORY	RING 15-16	CARI-63-4 N63-21924 22- HISTOCHEMICAL STUDY OF LIPASE, ALKALI & ACID
EFFECT OF PROTEIN INTAKE AND COL SELECTED LIVER ENZYMES ASSOCIATE	D EXPOSURE O	ON	PHOSPHATASE ACTIVITY IN DIGESTIVE TRACTS OF RATS ON DIFFERENT DIETS EXPOSED TO SUBLETHAL X-RAY DO N63-22367 23-
AAL-TOR-62-61	N63-17096	15-16	EFFECT OF SEX, WEIGHT, & AGE ON G-FORCE TOLERANG OF RATS
INTERRELATIONSHIPS OF COLD EXPOS	URE AND ANI	NG ACID	NADC-MA-6313 N63-22426 23-

ATE -16 0 TS -07

-16 S -

ND -14

LS -16
AND -16
C -14
ENT -16

-16

-16 175 -1-16

-16 IIC -17 IISR

-16

-16 -16 -16 -15

S OOSE 1-16

EFFECT OF AGING ON G-TOLERANCE OF RATS NADC-MA-6314 N03-22427 23-16	MUCLEAR EXPLOSION - TRANSIENT RESPONSE OF ELASTIC SOLID HALF-SPACE SUBJECTED TO SURFACE PRESSURE- RAYLETEN MAYE 15-23		
WHOLE BODY X-IRRADIATION EFFECT ON NON-PROTEIN AMINO ACIDS AND RELATED COMPOUNDS OF RAT BRAINS AS	SA MENS 8-4 SEACTION NAME OF STREET STREET AND THE STREET AS		
DETERMINED BY IOM EXCHANGE CHROMATOGRAPHY MADC-MA-6315 N63-22428 23-16	RALEIGH PROBLEM IN MAGNETOGASDYNAMICS N63-18055 16-24		
BENESET PETROLISH ON A RESPONSIVE METALE	DISCRETE VELOCITY MODEL APPLICATION TO LOW MACH		
METABOLIC EFFECTS OF METHIONINE TOXICITY IN RATS - ALTERATIONS IN THE LIVER & INCREASED URINARY EXCRETION OF ANIMO ACIDS	NUMBER COUETTE AND RAYLEIGH FLOW - MATHEMATICAL MODEL N63-19068 18-11		
AAL-TOR-63-5 N63-22715 23-16	VARIATIONS IN WAVE FORM OF RAYLEIGH HOTION AS		
ALTERATION OF CYTOCHROME C LEVEL IN ORGANS OF RATS	AFCRL-63-820 N63-20680 20-12		
ON EXPOSURE TO CHRONIC COLD AAL-TDR-63-6 N63-22716 23-16	RB-50 AIRCRAFT SOUTHOL REACTOR AZ		
ACUTE MAMMALIAN TOXICITY OF RARE EARTH NITRATES &	VIBRATION TESTING OF RB-50 AIRCRAFT N63-16768 14-34		
OXIDES - RAT STUDY	SA YORK SILE REACTOR		
SAN-TDR-63-38 N63-22827 23-16	S RELATIVE BIOLOGICAL EFFECTIVENESS /RRE/		
POPULATION DENSITY EFFECT ON SURVIVAL TIME AND/OR RATES IN MALE RATS FOLLOWING WHOLE BODY X-RAY	TA TRIGA MARK P REACTOR		
IRRADIATION	ANALYSIS AND SYNTHESIS OF RC SYNCHRONOUS METHORKS		
UR-631 N63-22917 23-16	AFOSR-2770 463-10675 02-09		
EFFECT OF HONOLOGOUS BONE MARROW TRANSPLANTATION ON CERTAIN REACTIVITY INDICES AND SURVIVAL OF LETHALLY IRRADIATED RATS N63-23299 24-16	ANTENNA IMPEDANCE MATCHING BY ACTIVE METHORKS M63-13698 08-09		
EISTEDRES REACTOR VARGET FARALCATION, CORRESTORS	NETWORK SYNTHESIS TECHNIQUES APPLICABLE TO RC		
BURNING RATE	FUNCTIONS NYU-TR-400-76 N63-19165 18-09		
COLLISION RATE	EFFECTS OF NETWORK SHAPING & LOADING ON TRANSIENT		
ORIFT RATE	AND FREQUENCY RESPONSE OF DISTRIBUTED RC METWORKS AFCRL-63-329 N63-22676 23-09		
FLOW RATE	ENGINCERING APPLICATIONS OF ANALOG CONFUTERS -		
STRAIN RATE	S RECOVERY CONTROL CENTER /RCC/		
ATE METER	REACTION HISOS ON A HOSTATHSHORTZHI NOTSAGA RASSONH		
CONTAMINATION RATE METER FOR MEASURING ALPHA AND BETA PARTICLE ACTIVITY	SA CHEMICAL REACTION		
CRRO-1109 N63-16597 14-15	SA NUCLEAR REACTION CONTROL OF ACTUAL AMERICAN SA PHOTOCHEMICAL REACTION		
MEASUREMENT OF EVERNATION CHARES BY AND PERSON	SA PROTON-PROTON REACTION		
S ASPECT RATIO	SA SURFACE REACTION SA THERMAL ADDITION REACTION AND ADDITIONAL SE		
LIFT-DRAG RATIO	CF KINETICS CRYOGENICS - LIQUID PROPELLANTS, BUBBLE CHAMBER,		
MILL RATIO O THEMSES SHEET STREET TO DITAR LINE	NEUTRON BOMBARDMENT, THERMONUCLEAR FUSION, AND		
SIGNAL TO NOISE RATIO	CRYOPUMPING TEATHER TO STATE MASTER NO. 100-100-100-100-100-100-100-100-100-100		
S THRUST WEIGHT RATIO	PLASMA CURRENT SHEET DYNAMICS - THERMONUCLEAR		
WINSONDE MEASUREMENT	FUSION - SPACE PROPULSION A-2 ASSESSMENT OF THE PROPULSION N63-12961 07-24		
NIND SHEAR MEASUREMENT DIFFERENCES BY RADAR AND RAVINSONDE	CONFERENCE ON PLASMA PHYSICS & CONTROLLED NUCLEAR		
ERDA-68	FUSION RESEARCH, AUSTRIA - SEPT 1961		
KINEHATIC DIVERGENCE & LARGE SCALE ENERGY	NUCL THE A PALL SEE I PROMISE HONDON WAS A MOS-13126 OF 97-24		
CONVERSION PROCESSES ANALYZED FROM WINDS & TEMPERATURE REPORTED BY RAWINSONDE NETWORK	PLASMA PHYSICS THERMONUCLEAR FUSION CONFERENCE - REPORTS AND ANSTRACTS - PART 2		
AFCRL-63-840 N63-23356 24-21	ES-KO ESSEL-EM N63-13127 -007-24		
YLEIGH SCATTERING	CONTROLLED THERMONUCLEAR FUSION FOR SPACECRAFT		
CONVERSION OF RAYLEIGH DATA ON AIRGLOW GREEN LINE EMISSION COVERING ENTIRE SUNSPOT CYCLE -	PROPULSION - USE OF DEUTERIUM-HELIUM 3 AS REACTOR FUEL CONTAINED BY SUPERCONDUCTING MAGNETS		
CORRELATION WITH NIGHT SKY BRIGHTNESS CONTINUUM AFCRL-63-835 N63-21039 21-12	TAPERTON OF THE WAS POSSES - N63-15075 11-27		
MANUAL TATALOGIC MANA TANY TANA DA MATTATURMOS MANTENS	LIFE IN UNIVERSE AND DEPENDENCE ON ENERGY FROM		
LIGHT SCATTERING BY ATOMIC GAS SYSTEMS - DEVIATIONS FROM RAYLEIGH SCATTERING	THERMONUCLEAR REACTIONS OF STARS N63-18920 18-16		
GCA-TR-62-28-A N63-21349 21-23	COMMAND RESONANCE CHARGING SYSTEM FOR ASTRON		
WLEIGH WAVE OPTIMUM DETECTOR FOR FREQUENCY SHIFT KEYED	ACCELERATOR - THERMONUCLEAR REACTION UCRL-7363 N63-20781 21-24		
TRANSHISSION THROUGH A RAYLEIGH FADING CHANNEL	CONFAMENATION N-DECONTANTINATION OF WATER-COOKINGS		
RADC-TDR-62-554 - CA CATEGO VITA N63-11410 1 03-08	SA ADVANCED TEST REACTOR /ATR/		
EFFECT OF MID-ATLANTIC RIDGE ON DISPERSION OF	SA BOILING WATER REACTOR		
AFCRL-63-201 245M POT 25MSETH 50N63-14606 10-12	SA FAST REACTORER SENDE DELANERON BOOK MULTIPALED		
RAYLEIGH WAVE TRANSMISSION ON ELASTIC WEDGE -	SA FLUIDIZED-BED REACTOR SA GAS COOLED REACTOR /GCR/		
SEISMIC WAVES AFCRL-63-258 - 14-23	SA HAMPORD PRODUCTION REACTOR /N/ PROPURE SAME A 2008		
TOTAL MAN CONTINUE CARREST AND	SA HEAVY WATER COMPONENTS TEST REACTOR /HWCTR/		

REACTI HE-67

REACTI HONDE REACTI HI-75

MICLE SAFET AML-6

EFFEC NUCLE NAA-S

FISSI RADIA GEAP-

CRITI REACT MASA-

NATER REACT NATHE

RADIO

HEAT CHANG BIBL TED-

CHRO PROD TID-

GRAPI PROB STOR BNL-

NEUT CADM NYO-

NUCL EFFI TID-ABSO CAOS TO T GEAP

NUCL CRIT EUR-

URAN THER RATE GA-2

REAC HATE HN-

ANNI STEI

RESO

NUC!

SA JANUS REACTOR	LAMS-2815 N63-11820 04-23
SA JUGGERMAUT REACTOR SA KIMI B-1A REACTOR SA KIMI B-1A REACTOR	TEMPERATURE COEFFICIENTS & SPECTRA IN HYDRIDE MODERATED SNAP REACTORS
SA KINI 8-18 REACTOR SA KINI 8-4 REACTOR SA KINI ROCKET REACTOR	NAA-SR-7140 N63-11825 04-04
SA LIQUID COOLED REACTOR SA LIQUID METAL COOLED REACTOR /LMCR/	CHIC NUMERICAL STUDIES FOR REACTOR THERMAL TRANSIENTS N63-11943 04-13
SA LOS ALAMOS MOLTEN PLUTONIUM REACTOR /LAMPRE/ SA LOS ALAMOS TURRET REACTOR SA MOLTEN-SALT REACTOR /MSRE/ SA ORGANIC COOLED REACTOR SA ORGANIC MODERATED REACTOR	BERYLLIUM OXIDE CERAMICS AND THEIR APPLICATION IN NUCLEAR PROPULSION SYSTEM - PLUTO PROJECT UCRL-6743 N63-11996 05-19
SA PLUM BROOK REACTOR	IRRADIATION OF SANTOWAX OMP IN IN-PILE LOOP -
SA PLUTONIUM RECYCLE TEST REACTOR /PRTR/ SYSTEM SA SPECTRAL SHIFT CONTROL REACTOR SA SPERT REACTOR	PART 1, SUMMARY MITNE-21 N63-12108 05-19
SA SUSIE REACTOR SA THERMONUCLEAR REACTOR	PART 2, TESTS OF ORGANIC MATERIALS FOR USE AS
SA TORY II-C REACTOR SA TOWER SHIELDING REACTOR II	COOLANTS IN NUCLEAR REACTORS MITNE-22, BK.I N63-12130 05-13
SA TRANSIENT REACTOR TEST /TREAT/ FACILITY SA TRIGA MARK F REACTOR SA WATER COOLED REACTOR	NITRIDATION RATES OF URANIUM-FISSIUM ALLOYS ANL-6642 N63-12140 05-01
SA WATER HODERATED REACTOR SA IPR-III REACTOR SA IPR-VII REACTOR	LINEAR POWER DETECTION AND RECORDING INSTRUMENT SYSTEMS FOR KINETIC EXPERIMENTS ON WATER BOILERS
PLUTO REACTOR TEST FACILITY DESCRIPTION UCRL-7036, PT. 8 N63-10074 01-10	NAA-SR-7077 N63-12208 05-13
HIGH-TEMPERATURE MATERIALS PROGRAM - OXIDATION RESISTANT FUEL, REACTORS, RADIATION EFFECTS	TRANSURANIUM ELEMENTS - EXTRACTION, HIGH FLUX ISOTOPE REACTOR TARGET FABRICATION, CORROSION, AND PREPARATION OF URANIUM-232
GEMP-17A H63-10103 01-18	ORNL-3375 N63-12218 05-97
SELECTION OF THERMIONIC CATHODES FOR REACTOR TESTS ARS PAPER-2550-62 N63-10269 01-06	REACTOR DEVELOPMENT PROGRAM - COOLANTS AND COOLING SYSTEMS, TECHNOLOGY, AND SAFETY ANL-6672 N63-12318 05-10
ENGINEERING APPLICATIONS OF ANALOG COMPUTERS - REACTOR STUDIES ANL-6319 REV. N63-10613 02-20	AUTOMATIC LIQUID-NITROGEN TRANSFER SYSTEM FOR REACTORS
NUCLEAR REACTOR INSTRUMENTATION AND CONTROL	BNL-764/T-285/ N63-12337 05-17
GEMP-75 N63-10614 02-15 THERMAL DESIGN OF SOLID-CORE REACTORS FOR NUCLEAR	PRESSURIZED MATER REACTOR PROJECT - CORES, SEEDING, DECONTAMINATION, METALLURGY WAPD-MRP-101 N63-12414 06-18
PROPULSION JPL-TR-32-217 N63-10652 02-27	MEASUREMENT OF CYLINDRICAL SHAPES BY ANALYSIS OF
METHOD FOR PREDICTING THE PRESSURE DISTRIBUTION ON THE CONICAL PORTION OF A SPHERE-COME	CIRCUMFERENTIAL VARIATION FROM PERFECT CYLINDER - APPLICATION TO REACTOR FUEL ELEMENT MONITORING HM-71521, REV N63-12455 06-18
N63-11006 03-02 COMPARISON OF MEASURED AND THEORETICAL VALUES OF THE SPECTRAL INTENSITY OF ULTRAVIOLET SKY	DEVICE FOR RECORDING FUEL ELEMENT DIMENSIONS DIRECTLY ON PUNCHED PAPER TAPE IN DECIMAL DIGITAL FORM
RADIATION AFCRL-62-1115 N63-11015 03-28	HH-75746 N63-12456 06-15
THEORETICAL HYPERVELOCITY UNSTEADY AERODYNAMICS N63-11063 03-02	UPGRADING ANALOG COMPUTER ANALYSIS OF SAVANNAH NUCLEAR SHIP REACTOR POMERPLANT BAM-1260 N63-12457 06-20
MEASUREMENT OF THE SHUTDOWN OF THERNAL POWER	MAS-12457 06-20 MIGH TEMPERATURE REACTOR MATERIALS - STRESS-
REACTORS BY PULSED NEUTRON SOURCES GEAP-4047 N63-11228 03-23	RUPTURE TESTS - RADIATION EFFECTS GEMP-19A N63-12493 06-33
MULTIGROUP DIFFUSION METHODS NVO-10206 N63-11229 03-23	NOISE SPECTRUM AND TRANSFER FUNCTION ANALYSIS OF GAS-COOLED REACTOR AND ARMY REACTOR ML-1
REACTOR DEVELOPMENT PROGRAM - POWERPLANTS, FUELS,	AGN-TH-399 N63-12602 O6-23
PHYSICS, AND SAFETY ANL-6658 N63-11492 03-23	REACTOR IRRADIATION OF URANIUM-IMPREGNATED GRAPHITE AT 1500 DEG TO 10 PERCENT BURNUP LAMS-2814 N63-12690 06-26
APPLICATIONS OF SIMPLIFIED SPHERICAL MARMONICS EQUATIONS TO SPHERICAL REACTOR SLAB GEOMETRY WAPD-TH-294 04-20	FORTRAN COMPUTATION OF REACTOR FLUX SHAPES IN ONE
NUCLEAR REACTOR - RADIATION DETECTION - RADIATION	DIMENSION DP-804 N63-12713 06-20
SHIELDING ORNL-3360 N63-11754 04-23	CHARACTERISTICS OF MONNUCLEAR GAS TURBINES AND COMPRESSORS NYO-9792 N63-12718 06-06
CONTAMINATION & DECONTAMINATION OF WATER-COOLED, LOW TEMPERATURE REACTORS - DEPOSITION OF RADIO-	INSTRUMENTATION AND CONTROLS - REACTOR, PROCESS,
NUCLIDES ON ALUMINUM DP-788 N63-11816 04-23	AND ACCELERATOR N63-12727 06-15
DEUTERIUM OXIDE MODERATED POWER REACTORS DP-795 M63-11817 04-23	HIGH TEMPERATURE SENSORS FOR MEASURING NUCLEAR REACTOR FUEL AND COOLANT SYSTEMS
LAMPRE PROGRAM - NUCLEAR REACTOR CORES, CONTROL	ANL-6636 N63-12935 07-15
RODS, FUEL ELEMENT	NUCLEAR REACTOR FACILITIES - UNITED STATES

i-0; i-13 IN i-19

-13

-13 -07

s -15

AND -07

-10

-17

10

15

15

28

13

3

6

M03-12936 01-10	WWW-2K-1180 W03-14055 DA-53
IMADIATED ZIRCALDY PRESSURE TUBE FOR NUCLEAR LEACTOR LOOP W-07949-REV N63-12947 07-17	PROTOTYPE BURST TEST CHAMBER FOR IRRADIATED PRESSURE TUBES FROM HAMFORD REACTOR HM-76158 N63-14051 09-33
MELECTOR RED - FUELS, MATERIALS SCIENCE, FUEL CELL,	COMPACT NUCLEAR REACTOR DESCRIPTIONS - PLANNED OPERATIONAL AVAILABILITY N63-14144 09-06
NEACTOR NW-75914 N63-13015 07-01	IN-CORE POWER MONITORING OF NUCLEAR REACTORS GEAP-3914 N63-14206 09-15
MICLEAR REACTORS - FUEL, CALORIMETRY, REACTOR	REFLECTED REACTOR KINETICS - TRANSFER FUNCTION
M-6596 N63-13024 07-07	DERIVATION NAA-SR-7263 N63-14342 10-23
EFFECT OF DECOMPOSITION ON CRITICAL HEAT FLUX OF MIXIEAR REACTOR COOLANTS	NUCLEAR REACTOR FOR ELECTRIC PROPULSION
MA-SR-7954 N63-13027 07-13	APPLICATION JPL-TR-32-385 N63-14413 10-27
FISSION SINTERING OF BORIDE POWDERS BY REACTOR	RETROSPECTIVE ANALYSIS OF ASPECTS OF ALPR-\$L-1
MADIATION GEAP-3743 N63-13201 07-23	DESIGN ANL-6692 N63-14564 10-23
CRITICAL MASS OF GASEOUS-CORE CYLINDRICAL-CAVITY	- TOTTS AS TATIONAL STREET, NO VALUE OF NAV
REACTORS FOR NUCLEAR PROPULSION MASA-TH-0-1575 MATERIALS TESTING REACTOR - ENGINEERING TEST	SURVEY OF 21 REACTOR VESSELS IN LIGHT OF ANTICIPATED EFFECTS OF NEUTRON IRRADIATION ON BRITTLE-RUPTURE PROPERTIES OF STRUCTURAL MATERIALS TID-12-82
MATHEMATICS	TID-17682 N63-14630 10-33 CAPSULE IRRADIATION OF UNALLOYED URANIUM AT HIGH
ORGANIC REACTOR TECHNOLOGY - COOLANTS, LOOPS,	TEMPERATURES - FUEL DEVELOPMENT FOR SODIUM COOLED REACTORS NAA-SR-7098 N63-14661 10-26
100-16830 N63-13282 07-23	SNAP AEROSPAGE SAFETY PROGRAM
TWO-PHASE NATURAL CIRCULATION SYSTEMS FOR REACTORS NR-6653 N63-13310 07-20	NAA-SR-8097 N63-14664 10-06
HEAT TRANSFER IN FUEL ELEMENTS AND COOLING WATER	NUCLEAR PHYSICS, REACTORS, CHEMICAL ENGINEERING, METALLURGY, RADIATION & ENGINEERING - PROGRESS
CHANNELS IN PRESSURIZED WATER POWER REACTORS -	REPORT BNL-759/5-62/ N63-14890 11-01
TID-3574 N63-13500 08-13	NUMERICAL ANALYSIS OF EFFECT OF NUCLEAR REACTOR
CHROMATOGRAPHIC ANALYSIS OF POLYPHENYL RADIOLYSIS PRODUCTS FROM REACTOR COOLANTS 176-17501 NA-3-13501 OR-07	PLANT CHARACTERISTICS ON REACTOR CORE POWER DISTRIBUTION - REACTOR TECHNOLOGY N63-15262 12-23
110-11301	The system of the source to a state of the s
GRAPHITE USE IN AIR-COOLED NUCLEAR REACTORS AND PROBLEMS OF OXIDATION, RADIATION AND EMERGY STORAGE NUL-758/T-201/ N63-13553 08-19	FUNDAMENTAL NUCLEAR ENERGY RESEARCH - RADIATION MEDICINE, PHYSICAL SCIENCES, ENVIRONMENTAL SCIENCE, NUCLEAR REACTOR, RADIOACTIVE MASTE N63-15700 12-01
ASSESSMENT OF THE PROPERTY OF	CANADA CARACTER CONTRACTOR CONTRACTOR OR CONTRACTOR
NEUTRON FLUX ON SURFACE OF GRAPHITE-LINED CAVITY - CADMIUM RATIO AND ALBEDO	NEUTRON TISSUE DOSE AT LONG RANGE FROM ELEVATED, UNSHIELDED, FISSION REACTOR
NY0-9657 N63-13561 08-23	UCRL-10559 N63-16035 13-16
MUCLEAR FUELS AND MATERIALS DEVELOPMENT - REACTOR	REACTOR TECHNOLOGY - BOILING WATER & LIQUID METAL
EFFICIENCY, OUTPUT AND LIFE, DESIGN TIO-11295 /2ND ED./ N63-13693 08-01	COOLED REACTORS - REACTOR SAFETY AML-6717 N63-16179 13-23
ABSORBER BURNUP EXPERIMENT - CHANGE OF ABSORPTION	NUCLEAR REACTOR INSTRUMENTATION AND CONTROL.
CROSS SECTION OF REACTOR CONTROL ROD MATERIALS DUE TO TRANSMUTATION B NEUTRON CAPTURE	SWITCHING CIRCUIT, AND PROBE-TYPE TEMPERATURE SENSORS
GEAP-4017 N63-13735 08-23	GEMP-76 N63-16355 14-06
NUCLEAR REACTOR RADIATION SHIELDING OF THE ORGEL CRITICAL EXPERIMENT	REVIEW OF NONLINEAR REACTOR DYNAMICS PROBLEMS BML-774/T-291/ N63-16376 14-23
EUR-149.F N63-13764 08-23	THEORETICAL AND EXPERIMENTAL REACTOR PHYSICS AND
WAMIUM AND ZIRCONIUM CARBIDE CATHODES FOR THERMIONIC SPACE REACTORS - VAPOR LOSS, DIFFUSION RATE AND THERMOCONDUCTIVITY	EXPERIMENTAL CRITICAL MASS PHYSICS - NUCLEAR REACTOR PLUTONIUM-ALUMINUM FUEL ELEMENTS HM-76128 M63-16419 14-23
GA-2670 N63-13785 08-06	
REACTOR METALLURGY RESEARCH - IRRADIATION DAMAGE,	MATERIALS TESTING REACTOR - ENGINEERING TEST
MATERIALS DEVELOPMENT FOR PLUTONIUM RECYCLE TEST REACTOR & HAMFORD PRODUCTION REACTOR /N/	IDO-16857 N63-14517 14-15 BOILING WATER MUCLEAR SUPERHEATING REACTOR
CONTRACTOR DESIGNATION FOR THE PARTER.	TTRI-58 N63-17247 15-20
AMMEALING STUDIES ON IRRADIATED TYPE 347 STAINLESS STEEL FROM ENGINEERING YEST REACTOR PRESSURE TUBE MM-1421 NG3-13973 09-18	EQUIPMENT FOR CONTINUOUS MEASUREMENT OF VOID FRACTION IN BOILING ORGANIC COOLANT - NUCLEAR
RESONANCE INTEGRALS AND SELF-SHIELDING FACTORS FOR	REACTOR COOLANTS NAA-SR-7675
DETECTOR FOILS USED IN REACTOR PHYSICS MEASUREMENT DP-017 N63-13977 09-23	MUCLEAR REACTOR CHEMISTRY N63-17379 15-07
NUCLEAR REACTOR KINETICS, STABILITY AND CONTROL -	91-77-14G074-408
BIBLIOGRAPHY 145H5 25 AND ACADS	COPPER OXIDATION IN NUCLEAR REACTOR

IRRADIATION EFFECTS GA-3349	N63-17428	15-07	FROM KIWI B-1A, 8-1B AND 8-4A REACTOR: LAMS-2932 N63-	S 20720	21-10
URANIUM FUEL ELEMENT ARRANGE GRAPHITE LATTICE NUCLEAR REA	EMENTS IN TRIANGU	LAR,	SOLID PLUTONIUM FUEL FOR NUCLEAR REAC	TORS 20837	21-26
LOADINGS AND FUEL ELEMENTS NAA-SR-7541	N63-17477	15-23	EIGENVALUE METHOD FOR CALCULATION OF	NUCLEAR	10139
EFFECT OF REACTOR TEMPERATUR			REACTOR BURNUP GA-4140 N63-	20951	21-26
FACTOR - CROSS SECTION AND I THERMAL ENERGY LEVELS			DEPOSITION OF RADIDACTIVE WASTE FROM	COOLANT	T QF
RH-3089-PR	N63-17486	16-23	NUCLEAR REACTOR GEAP-4140 N63-	20952	21-11
BOILING WATER AND LIQUID MET REACTORS - TECHNOLOGY, MAGNI SAFETY FACTORS ANL-6739	ETOHYDRODYNAMICS,		CONDUCTION-COOLED REACTOR POWER SUPPLY ANL-6694	Y FOR S 21032	PACE 21-23
ANL-6739	N63-18027	16-23	CERAMICS AND CERNETS FOR NUCLEAR REAC	TOR FUE	
EROSION-CORROSION OF ALUMINUSIMULATION			HW-76301 N63-	22072	22-19
HW-74359, REV.	N63-18115	16-18	NUCLEAR REACTOR FACILITIES N63-	22222	23-10
HAZARDS THAT MAY OCCUR BEFOR THE FLIGHT OF SNAP 10A NUCLE THERMAL SHOCK	EAR REACTOR -	TER	HYDRODYNAMICS OF COAXIAL FLOW GASEOUS EXPERIMENTAL MEASUREMENTS ON AIR-BROM FLOW SYSTEM		
NAA-SR-8304		17-06	TWO-DIMENSIONAL CALCULATIONS PERFORME	D ON	179220
NUCLEAR PROPULSION R&D - FLO VORTEX FLOW, AND GASEOUS FLO TDR-930/2210-14/TR-1		17-27	CYLINDRICAL, COAXIAL CAVITY REACTOR	22314	23-21
ORGANIC COOLANTS FOR NUCLEAR AND POLYPHENYL COOLANTS, RAI	REACTORS - SANT	OWAX	DIGITAL CODE FOR CALCULATION OF STARTOOF NUCLEAR ROCKET REACTOR N63-	UP TRAN 22318	VSIENCE 23-27
EXPERIMENTS IDO-16869		18-23	GAMMA IRRADIATION EFFECTS ON IN-REACT		TORING
100-10009	W03-10010	52-175	EQUIPMENT HN-76263 N63-	22403	23-23
NUCLEAR REACTORS IN UNIVERSI AND SAFETY	N63-18930	18-10	NUCLEAR REACTOR DEVELOPMENT ANL-6780 N63-	22565	23-23
NUCLEAR ACCIDENTS AND LEGAL	N63-18932	18-01	BERYLLIUM REFLECTOR DAMAGE IN MATERIA		
CLEANING, PACKING, AND TRANS PRODUCTS AND REACTOR COMPONE		SION		22760	23-23
A Service of Parties and Management and Applications of Parties and Parties an	N63-18946	18-17	EARTHQUAKES AND CONSTRUCTION OF NUCLE- TID-7024 N63-	AR REAC 23176	
SMALL, LIGHTHEIGHT URANIUM C REACTOR WITH A BERYLLIUM REF CORE - ZPR-III REACTOR			REACTOR CHEMISTRY SA MOLTEN-SALT REACTOR /MSRE/		
ANL-6713	N63-19219	18-10	CF NUCLEAR CHEMISTRY CHEMISTRY OF MOLTEN-SALT, AQUEOUS, AN		
GAS-COOLED HIGH-TEMPERATURE DESIGN - CELLULAR METALLIC F APEX-800, PT. B		18-10	FUELED NUCLEAR REACTORS AND NUCLEAR SI	HIP, SA 15441	AVANNAH
034346 Jr.3243861-1944	100000000000000000000000000000000000000	71.1920	REACTOR CONTROL		
ULTRAHIGH TEMPERATURE GAS-CO SYSTEM, HEAT TRANSFER ANALYS	SIS, FLOW RATES F		CF CONFINEMENT CF CONTAINMENT CF REACTOR SAFETY		
COOLING SYSTEM, & FUEL ELEME LAMS-2933	N63-19798	19-23	HIGH TEMPERATURE MATERIALS AND REACTO	R COMPO	ONENT
RESONANCE ABSORPTION IN NUCL CALCULATION PROBLEMS	LEAR REACTORS -		DEVELOPMENT PROGRAMS - VOL III, REACTI INSTRUMENTATION, FASTENERS, MONTE CAR GEMP-177C N63-	OR CONT LO METH 13428	TROLS: HOD 08-15
EUR-360-1	N63-19812	19-23	REACTOR INSTRUMENTATION AND CONTROLS	- RADIA	ATION
NUCLEAR SAFETY PROBLEMS AND NUCLEAR REACTOR FISSION	LIMITS REQUIRED	BY	MONITORING, NUCLEAR SPECTROSCOPY, DAT HIGH-VOLTAGE ACCELERATOR SUPPORT EQUI	A PROCE	
Y-1272	N63-19986	19-01		14801	11-01
NUCLEAR REACTOR INSTRUMENTAT	M49-20120	20-15	NUCLEAR REACTOR INSTRUMENTATION AND C SHITCHING CIRCUIT, AND PROBE-TYPE TEN SENSORS		
REACTOR DEVELOPMENT PROGRAM			GEMP-76 N63-	16355	14-0
REACTOR ANL-6764	N63-20444	20-10	REACTOR INSTRUMENTATION AND CONTROL M63-	17736	16-15
SUBSONIC NUCLEAR POWERED LOG HELIUM-COOLED REACTOR NASA-TH-X-28	N63-20524	1TH 20-34	NUCLEAR REACTOR INSTRUMENTATION AND C	Metr SW	20-15
FAST FISSION NUCLEAR REACTOR	117/11/11	641941	SOVIET RESEARCH REACTOR - CORE, FUEL.		1300
FROM BASTE MICI FAR DATA	N63-20673	20-23	CONTROL, & CONSTRUCTION AID-P-63-103 N63-	21326	
CHEMICAL ENGINEERING RESEARCY VOLATILITY, CALORIMETRY, RE- CONVERSION, NUCLEAR CONSTANT	CTOR SAFETY, ENE	RGY	REACTOR CORE HOLTEN PLUTONIUM PUMP EXPERIMENT IN R LA-2761 N63-	EACTOR 11819	CORES 04-Z
ANL-6648	N63-20681	20-18	LAMPRE PROGRAM - NUCLEAR REACTOR CORE	S. CON	TROL
RADIATION MEASUREMENTS OF RA	INTOACTIVE DEARTS		RODS, FUEL ELEMENT	THYER	1111248

1-10 1-26

1-26

-11 E -23 -19 -10 IL 1-27

-27 NCE -27 ING -23 -23 166 -23 S -12

94AH -07

7 S. -15 N. NG.

-64 -15

-15

-23

ES -23

LAMS-2815 N63-11820 04-23 MULTIPLEXING SUBSYSTEM FOR TELEMITRY SYSTEM IN	HIGH-TEMPERATURE LIQUID METAL HEAT TRANSFER - DEVELOPMENT PROBLEMS OF SNAP REACTOR SYSTEM, REACTOR DESIGN AND MATERIAL N63-15002 11-13
REACTOR CORE GEAP-4026 PRESSURIZED WATER REACTOR PROJECT - CURES,	SURVEY OF METEOROID PROPERTY AND DISTRIBUTION DATA RELEVANT TO SYSTEM FOR NUCLEAR AUXILIARY POWER 8 REACTOR AND SHIELD DESIGN
SEEDING, DECONTAMINATION, METALLURGY MAPD-MRP-101 M03-12414 C6-10	NAA-SR-8127
NASA-TN-D-1560 PLUM BROOK REACTOR CORE NASA-TN-D-1560 NS3-13192 07-10	LAMS-2694 N63-15780 13-10 ARMY BOILING WATER POWER REACTOR /PL-2/ DESIGN OF
BURNUP AND POISONING IN NUCLEAR REACTOR CORE AND . VALIDITY OF UNIFORM APPROXIMATION NGS-13291 07-10	TRANSPORTABLE MODULE USING AMBIENT COOLING - SNOW YUNNEL & OTHER COLD CLIMATE INSTALLATIONS 100-19021, VOL. I N63-16030 13-10
REACTOR TECHNOLOGY - REACTUR CORE POWERPLANT, GADDLINIUM SEPTA, SPACE-TIME SYNTHESIS PROBLEMS, CERAMIC FUEL WATER, TEFLON, & ROLLED-IN TUBE	MODELING TECHNIQUES IN CHEMICAL REACTOR DESIGN FOR ENERGY CONVERSION N63-18588 17-10
WAPD-BT-28 N63-15261 12-10	STATISTICAL ANALYSIS OF HOT CHANNEL FACTORS FOR COMPACT SNAP REACTORS NAS-SR-8468 N63-18884 18-23
NUMERICAL ANALYSIS OF EFFECT OF NUCLEAR REACTOR PLANT CHARACTERISTICS ON REACTOR CORE POWER DISTRIBUTION — REACTOR TECHNOLOGY	NUCLEAR REACTORS IN UNIVERSITIES - REACTOR DESIGN
N63-15262 12-23	AND SAFETY N63-18930 18-10
USE OF GADOLINIUM IN SEPTA FORM IN REACTOR CORE - REACTOR TECHNOLOGY N63-15263 12-23	REACTOR DEVELOPMENT PROGRAM - BOILING WATER REACTOR ANL-6764 N63-20444 20-10
SPACE AND TIME SYNTHESIS BY VARIATION METHOD FOR REACTOR CORE DESIGN PROBLEMS - REACTOR TECHNOLOGY N63-15264 12-23	SYSTEM FOR NUCLEAR AUXILIARY POWER PROGRAM/SMAP 8/ REACTOR AND SHIELD DESIGN AIAA PAPER-63033 N63-20723 21-06
DENSITY DETERMINATION OF CERAMIC FUEL WAFER - FUEL ELEMENT FOR REACTOR CORE - RADIATION DETERMINATION N63-15265 12-23	CRITICAL ASSEMBLY WORK IN SUPPORT OF NEUTRONIC CALCULATIONS FOR PROPULSION REACTOR DEVELOPMENT
PROTOTYPE HIGH TEMPERATURE GAS COOLED REACTOR - MATERIALS SCIENCE, REACTOR CORE, REFLECTOR, CONTROL ROD DRIVES GA-3676 N63-16418 14-15	CRITICALITY EXPERIMENTS & CALCULATIONS FOR HIGH TEMPERATURE, GRAPHITE MODERATED ASSEMBLIES WITH SIMPLE GEOMETRIES - REACTOR DESIGN
THERMOCOURLE-TYPE DETECTORS FOR IN-CORE POWER	N63-22303 23-27
MONITORING GEAP-4222 N63-19382 18-15	CORRELATION OF CRITICAL CONDITIONS OF HOMOGENEOUS BARE REACTORS CONTAINING RESONANCE ABSORBER RM-2940-PR N63-22304 23-27
DISPERSAL OF REACTOR CORE MATERIAL BY REENTRY DISINTEGRATION PROCESS CAL-AA-1506-W-1 N63-19772 19-30	DESIGN CRITERIA FOR THERMAL FLUX LIQUID METAL PACKAGE LOOP IN ADVANCED TEST REACTOR IDO-24042 N63-22838 23-30
SOVIET RESEARCH REACTOR - CORE, FUEL, COOLING, CONTROL, & CONSTRUCTION AID-P-63-103 N63-21326 21-23	GAS-COOLED REACTOR SYSTEMS PROGRAM FOR DEFECTIVE FUEL ELEMENT TESTING N63-23742 24-23
TELEMETERS FOR POWER MONITORING WITHIN REACTOR	REACTOR PUEL
GEAP-4229 N63-21921 22-09	CF FUEL ELEMENT
REACTOR DESIGN THERMAL DESIGN OF SOLID-CORE REACTORS FOR NUCLEAR PROPULSION	CF REACTOR MATERIAL PLASTICS, ISOTOPE SEPARATION, RADIOELEMENTS.
JPL-TR-32-217 N63-10652 02-27	REACTOR FUELS N63-10419 01-01
GAS-COOLED REACTOR PROGRAM - DESIGN, DEVELOPMENT AND PERFORMANCE DRNL-3372 N63-12316 05-10	PLASTICS RESEARCH - ISOTOPE SEPARATION AND PURIFICATION, AND REACTOR FUELS MLM-1133 N63-10420 01-01
DESIGN SUMMARY ON THE JUGGERNAUT REACTOR ANL-6616 N63-12317 05-10	REACTOR FUELS - PLASTICS, X-RAYS, RADIOELEMENTS
STATUS OF THERMOELECTRIC DEVICES - GENERATORS, REFRIGERATION & AIR CONDITIONING EQUIPMENT, REACTORS, AND SOLAR PANELS	CLADDING URANIUM OXIDE FUEL ELEMENTS WITH
NRL-MEMO-1361, PT. 2 N63-14441 10-23	BMI-1602 N63-10747 02-18
LOS ALANOS MOLTEN PLUTONTUM REACTOR EXPERIMENT /LAMPRE/ PROGRESS - REACTOR DESIGN, PLUTONTUM FUEL ALLOYS, SODIUM COOLING SYSTEM LAMS-2875 N63-14569 10-10	THERMIDOR - A FORTRAN CODE TO EVALUATE THE THERMAL NEUTRON SPECTAUM IN AN ORGEL TYPE FUEL ELEMENT EUR-105.E N63-10776 02-20
CAS-COOLED PEACTOR PROCESM - DESIGN, FIEL	PLASTICS RESEARCH, ISOTOPES, RANGER X-RAY SENSOR, RADIOACTIVE ELEMENTS AND REACTOR FUELS
MATERIALS, PEBBLE BED REACTOR EXPERIMENT ORNL-3254 N63-14812 11-23	MLH-1136 N63-11348 03-01
REACTOR DEVELOPMENT PROGRAM - DESIGN, SAFETY - MUCLEAR ROCKET FUEL TEST REACTOR ANL-6705 N63-14971 11-27	PLASTICS RESEARCH, ADHESIVES, REACTOR FUELS, RADIOACTIVE ELEMENTS AND ISOTOPES MLM-1137 N63-11349 03-01
ANL-6705 N63-14971 11-27	PLASTICS RESEARCH, RADIOACTIVE ELEMENTS, ISOTOPE

CONTRACTOR & BURIEFICATION BEACTOR SUCCES V. CAV	CHANNELS IN PRESSURIZED WATER POWER REACTORS -
SEPARATION & PURIFICATION, REACTOR FUELS, X-RAY SENSORS MLM-1138 N63-11350 03-01	BIBLIOGRAPHY T10-3574 463-13500 08-13
REACTOR DEVELOPMENT PROGRAM - POWERPLANTS, FUELS, PHYSICS, AND SAFETY ANL-6658 N63-11492 03-23	CALCULATION FOR ZPR-VII LATTICE CRITICALITY EQUATION WITH THORIA-URANIA FUEL IN HEAVY WATER ANL-6661 N63-13606 08-26
SHIPMENT OF IRRADIATED FUEL FROM EUROPEAN POWER REACTORS TO THE UNITED STATES EUR-112.E.F. VOL. 1 N63-11767 04-26	FISSION DISTRIBUTION IN SEVEN-PIN CLUSTER FUEL ELEMENTS BY THERMAL NEUTRONS UCRL-6695 N63-13612 08-26
The state of the s	
INTERNATIONAL TRANSPORTATION OF IRRADIATED REACTOR FUELS - LEGAL, ECONOMIC AND SAFETY ASPECTS EUR-112.E,F, VOL. 3 N63-11760 04-26	SODIUM-COOLED REACTORS - FAST CERAMIC REACTOR - PLUTONIUM OXIDE/URANIUM OXIDE CERAMIC FUELS GEAP-4080 08-01
PROCESSING OF POWER REACTOR FUELS DP-811 N63-11818 04-23	PLASTICS AND RADICELEMENTS RESEARCH - ISOTOPE SEPARATION AND PURIFICATION - REACTOR FUELS NLM-1144 N63-16625 10-23
REPROCESSING OF IRRADIATED URANIUM CARBIDE REACTOR	
FUEL NAA-SR-7511 N63-11827 04-07	CAPSULE IRRADIATION OF UNALLOYED URANIUM AT HIGH TEMPERATURES - FUEL DEVELOPMENT FOR SODIUM COOLED REACTORS
HYDRAULIC TESTS OF CONTROL ROD AND DRIVER FUEL FOR	NAA-SR-7098 N63-14661 10-26
EXPERIMENTAL ORGANIC COOLED REACTOR IDG-16811 N63-11847 04-17	GAS-COOLED REACTOR PROGRAM - DESIGN. FUEL, MATERIALS, PEBBLE BED REACTUR EXPERIMENT
REACTOR TECHNOLOGY - RADIOGRAPHING WELDS - STEAM	ORNL-3254 N63-14812 11-23
GENERATOR STABILITY - IRRADIATION OF FUELS WAPD-BT-27 N63-11937 04-23	CONTROLLED THERMONUCLEAR FUSION FOR SPACECRAFT PROPULSION - USE OF DEUTERIUM-HELIUM 3 AS REACTOR
IRRADIATION BEHAVIOR OF ZIRCONIUM OXIDE-URANIUM OXIDE FUELS N63-11940 04-23	FUEL CONTAINED BY SUPERCONDUCTING MAGNETS N63-15075 11-27
GAS-COOLED REACTOR PROGRAM - DESIGN, DEVELOPMENT AND PERFORMANCE ORNL-3372 N63-12316 05-10	PREDICTION AND CONTROL OF NUCLEAR REACTIVITY LIFETIME AND BURNUP OF NUCLEAR FUELS FOR POWER REACTORS
CATION EXCHANGE METHOD FOR SEPARATION AND	UCRL-10614 N63-15229 11-26
DETERMINATION OF PLUTONIUM IN PLUTONIUM-URANIUM REACTOR FUEL ELEMENTS	DENSITY DETERMINATION OF CERAMIC FUEL WAFER - FUEL ELEMENT FOR REACTOR CORE - RADIATION DETERMINATION N63-15265 12-23
NBL-189 N63-12401 06-07	
SWAGING OF URANIUM DIOXIDE EUR-117.E N63-12644 06-17	NUCLEAR SUPERHEAT PROJECT - MATERIAL CORROSION, FUELS-IRRADIATION AND ACTIVATION, REACTOR PHYSICS, COOLANT CHEMISTRY, HEAT TRANSFER STUDIES - SUMMARY
HIGH TEMPERATURE IRRADIATION TEST OF URANIUM DIOXIDE CERMET FUELS	T10-7658 N63-15502 12-13
BHI-1608 N63-12687 06-26	EXPERIMENTAL ORGANIC COOLED REACTOR PROGRAM - FILM FORMATION ON REACTOR FUEL ELEMENTS
REACTOR RED - FUELS, MATERIALS SCIENCE, FUEL CELL, NONDESTRUCTIVE TESTING, PLUTONIUM RECYCLE TEST REACTOR	IDO-16845 NG3-15541 12-10 GAS SAMPLER FOR USE WITH IRRADIATED NUCLEAR
HW-75914 N63-13015 07-01	REACTOR FUEL ELEMENT OF URANIUM OXIDE DP-814 N63-15557 12-15
URANIUM OXIDE-SODIUM POTASSIUM SLURRY FOR REACTOR	Trespondence and course anexage allowers are allowed as a course
FUEL ANL-6644 N63-13025 07-26	ATOMIC ENERGY R&D - ADHESIVES, RADICHLEMENTS, RADICISCTOPE SEPARATION, ALPHA & NEUTRON SOURCES, REACTOR FUELS & MATERIALS, CHEMICAL ANALYSIS
PULSE HEATING OF MODIFIED ZIRCONIUM-URANIUM	HLM-1145 N63-15558 12-17
NAA-SR-7736 N63-13034 07-26	RADIATION EFFECTS ON HIGH TEMPERATURE REACTOR COMPONENT MATERIALS - FUEL MATERIALS - IRRADIATION
RADIATION EFFECTS ON PLATE-TYPE URANIUM OXIDE	OF FUEL ELEMENT GEMP-177A N63-15756 12-18
REACTOR FUEL ELEMENT WAPD-TM-332 N63-13041 07-26	
HIGH-TEMPERATURE IRRADIATION OF URANIUM DIOXIDE- BERYLLIUM OXIDE REACTOR FUELS	SAFETY ANALYSIS - EXPERIMENTAL BREEDER REACTOR-1 WITH MARK IV PLUTONIUM FUEL CORE - RADIATION HAZARD AND TOXICITY
100-28600 N63-13306 07-23	AML-6411 N63-15937 13-10
REACTOR MATERIALS, FUEL ELEMENTS, IRRADIATION AND RELATED SUBJECTS	REACTOR FUEL ELEMENT CONFERENCE, GATLINBURG, TENN. 1962 - VOL 2
BMI-1603/DEL-/ N63-13309 07-01	T10-7642, BK. 2 N63-16116 13-18
REACTOR RED FOR CIVILIAN APPLICATIONS - FUELS, MATERIALS, RADIOISOTOPES, COATINGS, AND RADIATION EFFECTS	THERMAL EMISSION SOURCE AND MASS SPECTROMETER - UTILIZATION FOR MEASUREMENT OF URANIUM ISOTOPE ABUNDANCES AND REACTOR FUEL BURNUP
BMI-1607/DEL./ N63-13373 08-01	PWAC-393 N63-16167 13-07
ANALYSIS OF TRANSIENT EFFECTS IN FAST REACTOR	CIVILIAN APPLICATIONS OF RESEARCH - REACTOR FUELS AND MATERIALS - RADIOISOTOPES - IRRADIATION -
GEAP-4038 N63-13497 U8-26	CERANICS - FISSION PRODUCTS BMI-1624/DEL./ N63-17440 15-07
CORROSION, METALLURGY, AND RADIATION EFFECTS OF MATERIALS FOR NUCLEAR FUEL CLADDING GEAP-4060 N83-13498 08-18	REACTOR TECHNOLOGY - PROPERTIES OF FUEL MATERIALS
	HN-76559 N63-17456 15-01
HEAT TRANSFER IN FUEL ELEMENTS AND COOLING WATER	BURN A DE L'AMBA

LN3

HANDLING AND PROCESSING OF REACTOR FUELS,	REACTOR DESIGN AND MATERIAL OTTA 5, M63-15002 19:11-13
ORNL-3314 N63-18329 17-01	HIGH TEMPERATURE MATERIALS FOR REACTOR N63-15201 11-18
SHIELDING REQUIREMENTS FOR PROMETHIUM SOURCES - RADIATION CONTRIBUTIONS AFTER REACTOR DISCHARGE HM-77375 M63-18908 18-23	OXIDATION OF HEAT RESISTANT IRON- AND NICKEL-BASE ALLOYS IN HIGH TEMPERATURE NUCLEAR REACTOR
PHYSICAL, THERMAL, AND MECHANICAL PROPERTY MEASUREMENT TECHNIQUES FOR LOW PERMEABILITY GRAPHITE FOR REACTOR FUEL APPLICATIONS	HEAT TREATMENT, TENSILE PROPERTIES, AND CORROSION RESISTANCE OF ZIRCONIUM ALLOY FOR USE AS CLADDING
URANIUM CARBIDE AND PLUTONIUM CARBIDE PROCESSING WITH TRIBUTYL PHOSPHATE - NUCLEAR CARBIDE MIXTURES	IN MATER-COOLED NUCLEAR REACTOR HM-71023 N63-15552 L2-18
AS REACTOR FUELS LAMS-2884 N63-19235 REACTOR FUEL PROCESSING, ELECTROLYTIC DISSOLUTION,	ATOMIC ENERGY RED - ADHESIVES, RADIOELEMENTS, RADIOISOTOPE SEPARATION, ALPHA & MEUTRON SOURCES, REACTOR FUELS & MATERIALS, CHEMICAL AMALYSIS MLM-1145 N63-15558 12-17
RADIOACTIVE WASTE TREATMENT & CALCINATION 100-14611	MIGH TEMPERATURE REACTOR MATERIALS FABRICATION AND EFFECT OF RADIATION ON HIGH TEMPERATURE ALLOYS
MEURADN FLUX STRUCTURE IN GRAPHITE LATTICES — URANIUM METAL & OXIDE FUEL ELEMENTS — BUCKLING AND FLUX DISTRIBUTION	RADIATION EFFECTS ON HIGH TEMPERATURE REACTOR
PLASTICS, ADHESIVES, ISOTOPES, REACTOR MATERIALS AND FUELS, AND PLUTONIUM REAGENTS	COMPONENT MATERIALS - FUEL MATERIALS - LARADIATION OF FUEL ELEMENT COMPONENT MATERIALS - LARADIATION GEMP-177A - MATERIAL MATERIALS - LARADIATION MATERIALS - FUEL MATERIALS - LARADIATION GEMP-177A - MATERIALS - LARADIATION
NLN-1146 N63-20345 20-07 NUCLEAR RADIATION DAMAGE OF CERAMIC REACTOR FUEL	NUCLEAR ENERGY FOR CIVILIAN APPLICATION - REACTOR MATERIALS, RADIDACTIVE ISOTOPES - ACTUAL BMI-1019/DEL./
REIC-27 N63-20518 20-19 SOVIET RESEARCH REACTOR - CORE, FUEL, COOLING, CONTROL, & CONSTRUCTION	CIVILIAN APPLICATIONS OF REACTOR TECHNOLOGY - RADIOSCOPE, RADIATION, FUELS, AND REACTOR MATERIAL BMI-1614/DEL-/ N63-16447 14-23
AID-P-63-103 N63-21326 21-23 CERAMICS AND CERMETS FOR NUCLEAR REACTOR FUELS N63-22072 22-19	ZIRCONIUM ALLOYS FOR STEAM SERVICE NUCLEAR REACTORS - CORROSION TESTING - FABRICATION GEAP-4139 N63-17427 15-18
EXPERIMENTAL GAS-COOLED REACTOR FUEL ASSEMBLIES ORNL-3478 N63-22225 23-10	MECHANICAL PROPERTIES OF REACTOR MATERIALS - BODY CENTERED CUBIC METALS, DEFORMATION EMERGY SPECTRUM, DISLOCATION DYNAMICS
FAST REACTOR FUEL CYCLE COSTS AND TEMPERATURE COEFFICIENTS OF REACTIVITY FOR PLUTONIUM DIOXIDESTAINLESS STEEL & PLUTONIUM-URANIUM DIOXIDE SYSTEM APDA-154 N63-22732 23-23	GA-3585 N63-17436 15-18 CIVILIAN APPLICATIONS OF RESEARCH - REACTOR FUELS AND MATERIALS - RADIOISOTOPES - IRRADIATION -
IRRADIATION OF NUCLEAR REACTOR FUEL WITH FOG COOLING	CERAMICS - FISSION PRODUCTS BM1-1624/DEL-/ M63-17440 15-07 REACTOR TECHNOLOGY - PROPERTIES OF FUEL MATERIALS
NUCLEAR RADIATION EFFECT ON METALLIC FUELS - URANIUM, THORIUM, PLUTONIUM & THEIR ALLOYS	AND FABRICATION HH-76559
REIC-29 N63-22935 23-18 LONG-TERM IRRADIATION OF SINTERED ALUMINUM PRODUCT	HIGH TEMPERATURE REACTOR MATERIAL - STRESS-RUPTURE HOLYBOENUM, TANTALUM, TUNGSTEN - RADIATION EFFECTS GEMP-23A 10-33
CLAD, URANIUM OXIDE FUELED, TREFOIL BUNDLES IN X-7 ORGANIC COOLED LOOP AECL-1782 N63-23145 24-23	INORGANIC CHEMISTRY, THERMODYNAMICS, SOLID STATE PHYSICS, KINETICS, ELECTROCHEMISTRY, METALLURGY
NUCLEAR REACTOR TECHNOLOGY AND PHYSICS - FUELS AND MATERIALS BMI-1639/DEL./ N63-23710 24-01	AND CERAMICS, MICROSTRUCTURE, AND REACTOR MATERIAL UCRL-10706 AND ALB-07 AUTOMATIC SAMPLING DEVICE FOR COUNTING REACTOR
EACTOR IN-PLIGHT TEST /RIFT/ PROJECT	IRRADIATED FOILS 10 100 100 100 100 100 100 100 100 100
NUCLEAR PROPULSION PROGRESS - KINI-B REACTOR, PROPELLANT AND ENGINE DEVELOPMENT, RIFT PROJECT, AND NERVA ENGINE N63-17227 15-27	PLASTICS, ADHESIVES, ISOTOPES, REACTOR MATERIALS AND FUELS, AND PLUTONIUM REAGENTS NLM-1146 N63-20345 20-07
EACTOR MATERIAL CF LIQUID METAL CF REACTOR FUEL	URANIUM OXIDE-LANTHANUM OXIDE COMPOSITIONS - PHASE RELATIONSHIPS, VOLATILITY, CRYSTAL STRUCTURE, &
REACTOR RED FOR CIVILIAN APPLICATIONS - FUELS, MATERIALS, RADIOISOTOPES, COATINGS, AND RADIATION	APPLICATIONS AS REACTOR MATERIAL ANL-6711 N63-20441 20-26
BMI-1607/DEL./ N63-13373 08-01 NUCLEAR FUELS AND MATERIALS DEVELOPMENT - REACTOR	HEUTRON ACTIVATION ANALYSIS OF REACTOR MATERIALS - CHEMICAL ANALYSIS EUR-306.1 N63-20689 20-23
EFFICIENCY, OUTPUT AND LIFE, DESIGN TID-11295 /2MD ED./ N63-13693 08-01 GAS-COOLED REACTOR PROGRAM - DESIGN, FUEL,	METALLURGY - PHYSICS & CHEMISTRY OF MEACTON OF MATERIALS HN-77954 HARRES - MICHAESTE - N63-22073 A 22-18
MATERIALS, PERBLE BED REACTOR EXPERIMENT ORNL-3254 N63-14812 11-23	GROUP CONSTANTS AND COMPUTED NEUTRON CROSS SECTION
HIGH-TEMPERATURE LIQUID METAL HEAT TRANSFER - DEVELOPMENT PROBLEMS OF SNAP REACTOR SYSTEM,	FOR REACTOR MATERIALS LAMS-2941 Section 19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

	CIVILIAN APPLICATIONS OF NUCLEAR ENERGY - R MATERIALS & FUEL TESTING BMI-1642/DEL./ N63-22622		MONITORING OF ZIRCALOY-2 PRESSURE TUBES OF PRIR REACTOR FOR HIGH TEMPERATURE AND RADII EFFECTS	ATION
	BASIC MATERIALS RESULTING FROM NUCLEAR ROCK	ET	HW-74731, PT. II N63-11805	(H)(E)(ii)
	REACTOR STUDY - FUEL TESTING N63-22759	23-27	REACTOR DEVELOPMENT PROGRAM - CODLANTS AND COOLING SYSTEMS, TECHNOLOGY, AND SAFETY ANL-6672 N63-12318	103000
	HIGH-TEMPERATURE REACTOR-MATERIALS FABRICAT EFFECT OF RADIATION ON HIGH-TEMPERATURE ALL GEMP-27A N63-23406		NUCLEAR REACTORS - FUEL, CALORIMETRY, REACT	TOR
	NUCLEAR REACTOR TECHNOLOGY AND PHYSICS - FU	FLS AND	ANL-6596 N63-13024	07-01
	MATERIALS 8MI-1639/DEL-/ N63-23710	24-01	NUCLEAR REACTORS - BOILING WATER REACTOR, I METAL-COOLED REACTOR, REACTOR SAFETY ANL-6683	1111163
RE	ACTOR MODERATOR SOLUTION OF NEUTRON TRANSPORT EQUATION IN H	CAND!	SNAP AEROSPACE SAFETY PROGRAM	CALL
	GAS IN PLANE GEOMETRY IN CASE OF INFINITE MEDIUM AND CONSTANT TOTAL CROSS SECTION	10.764	NAA-SR-8097 N63-14664	EGARS
	A-8 N63-12962	07-23	REACTOR DEVELOPMENT PROGRAM - DESIGN, SAFET NUCLEAR ROCKET FUEL TEST REACTOR	
	HIGH TEMPERATURE MATERIALS FOR REACTOR GEMP-9A N63-15201	11-18	ANL-6705 N63-14971	194 25%
	SPECTRAL SHIFT CONTROL REACTOR BASIC PHYSIC NUCLEAR PROPERTIES OF SLIGHTLY ENRICHED LAT	S - TICES	SAFETY ANALYSIS — EXPERIMENTAL BREEDER REAL WITH MARK IV PLUTONIUM FUEL CORE — RADIATIO HAZARD AND TOXICITY	ON
	MODERATED BY DEUTERIUM OXIDE - WATER MIXTUR BAW-1266 N63-15823	ES 13-23	ANL-6411 N63-15937	13-10
RE	ACTOR PHYSICS NUCLEAR PHYSICS, REACTOR PHYSICS AND MASS P		REACTOR TECHNOLOGY - BOILING WATER & LIQUIT COOLED REACTORS - REACTOR SAFETY ANL-6717 N63-16179	
	HW-75228 N63-12411	06-23	SYSTEM FOR NUCLEAR AUXILIARY POWER PROGRAM	313368
	NUCLEAR SUPERHEAT PROJECT - MATERIAL CORROS		REACTOR SAFETY - SHIELDING	
	FUELS-IRRADIATION AND ACTIVATION, REACTOR PLOCOCLANT CHEMISTRY, HEAT TRANSFER STUDIES -	SUMMARY	NAA-SR-7432 N63-16934	1-015
	T10-7658 N63-15502 REACTOR TECHNOLOGY - PHYSICS REPORT	12-13	REACTOR TECHNOLOGY & SAFETY — LIQUID METAL HALLAM POWER, ORGANIC NODERATED AND POWER I NAA-SR-7400 N63-18010	REACTORS
78	ATOMIC ENERGY IN SOVIET UNION - REACTOR PHY FTO-TT-62-213/16264 N63-18196	15-23 SICS 16-23	BOILING WATER AND LIQUID METAL-COOLED NUCL REACTORS - TECHNOLOGY, MAGNETOHYDRODYNAMICS SAFETY FACTORS	S, AND
	PHYSICS OF FAST REACTOR - ENERGY SPECTRUM A	NO	ANL-6739 N63-18027	16-23
	SPATIAL DISTRIBUTION OF NEUTRONS N63-18197	Maria.	HAZARDS THAT MAY OCCUR BEFORE, DURING AND I THE FLIGHT OF SNAP 10A NUCLEAR REACTOR - THERMAL SHOCK	4.04M
2:00	PHYSICS OF FAST REACTOR - HEAT FLOW AND WATE VAPOR MIXING IN REACTOR TUBES AND CHANNELS N63-18198	ER 16-23	NAA-SR-9304 N63-18265 NUCLEAR REACTORS IN UNIVERSITIES - REACTOR	
(y)	PHYSICS OF FAST REACTOR - NEUTRON SPECTRUM USING RESONANCE EFFECT N63-18199	BY 16-23	AND SAFETY N63-18930 REACTOR DEVELOPMENT PROGRAM - BOILING WATER	PONKER!
州のが	PHYSICS RESEARCH - THEORETICAL REACTOR, EXPERIMENTAL NUCLEAR & CRITICAL MASS PHYSICS		REACTOR, LIQUID-METAL-COOLED REACTOR AND PI RECYCLE REACTOR - REACTOR SAFETY AND TECHNIC ANL-6749	DLOGY
	HW-77311 N63-19506	19-23	SAFETY - RADIATION, VENTILATION, & REACTOR	HAZARDS
47	PARAMETER OSCILLATION MEASUREMENTS IN REACTION THEORETICAL FOUNDATIONS EUR-221.E N63-19970		CONTROL UCRL-7254 N63-19640	19-10
	TOTAL TORSEN OF THE PLANT OF THE PROPERTY OF T		NUCLEAR SAFETY PROBLEMS AND LIMITS REQUIRED	D BY
	HETEROGENEOUS REACTOR THEORY USING TWO-GROUP AND EXTENSION TO SECONDARY EFFECTS NASA-CR-51300 N63-21732	22-23	NUCLEAR REACTOR FISSION Y-1272 N63-19986	19-01
	REACTOR PHYSICS CONSTANTS ANL-5800 N63-22834	23-23	CHEMICAL ENGINEERING RESEARCH - METALLURGY, VOLATILITY, CALORIMETRY, REACTOR SAFETY, ELECTORYERSION, NUCLEAR CONSTANT DETERMINATION ANL-6648 N63-20681	
	REACTOR PHYSICS - INTERACTING FISSILE CYLINI LATTICE PARAMETERS AT HIGH TEMPERATURES, ANI CRITICAL MASS MEASUREMENTS	D	REFERENCES TO UNCLASSIFIED REPORTS ON REACT	TOR
	HW-77871 N63-22991	23-23	T10-3523/REV. 5/ N63-21018	21-2
	NUCLEAR REACTOR TECHNOLOGY AND PHYSICS - FUE MATERIALS DMI-1639/DEL-/ N63-23710	24-01	RAC - FORTRAM COMPUTER PROGRAM FOR REACTOR ACCIDENT CALCULATIONS LAMS-2020 N63-21182	-148
E	AFTOR CAFETY		SODIUM COOLED NUCLEAR REACTOR SAFETY	TOOM
C	F CONTROL ROD F REACTOR CONTROL REACTOR SAFETY - LITERATURE SEARCH	YAN	NAA-SR-7909 REACTOR TECHNOLOGY OF HARBORS BOYDARD OBSOCS	22-1
	T10-3525 /REV. 4/ N63-10518	01-23	REACTOR TECHNOLOGY - RADIOGRAPHING WELDS - GENERATOR STABILITY - IRRADIATION OF FUELS	STEAM
	REACTOR DEVELOPMENT PROGRAM - POWERPLANTS, PHYSICS, AND SAFETY ANL-6658 N63-11492	KAJ	WAPD-BT-27 MASH JAYSM STUDT J MMY ASSISTED	-NOTHE
	ANL-6658 N63-11492	03-23	REACTOR TECHNOLOGY - REACTOR CORE POWERPLAN	114

5-10

7-07 110-7-23 0-06

1-27 -1 3-10 TAL 3-23

4-86 LED, TORS 5-23

10

GN 1-10

1UH -10

RDS -16

-01 L

-23

-23

-16

-23

RE

RE

REA

REA

HYPERSONIC FLOW ANALYSIS - REAL GAS OBLIQUE SHOCK FUNCTIONS FOR AIR IN CHEMICAL EQUILIBRIUM - TWO

GADDLINIUM SEPTA, SPACE-TIME SY CERAMIC FUEL WATER, TEFLON, & R WAPD-BT-28	OLLED-IN TUBE	12834 3		N63-13813	09-11
NUMERICAL ANALYSIS OF EFFECT OF PLANT CHARACTERISTICS ON REACTO DISTRIBUTION - REACTOR TECHNOLO	R CORE POWER	(A-2)	HELIUM PARAMETERS CALCULATED TO TEMPERATURES AND PRESSURES BELIA TO ESTABLISH REAL GAS BEHAVIOR NASA-TM-0-1632	DW CRITICAL DE	NS1TY 09-11
USE OF GADOLINIUM IN SEPTA FORM REACTOR TECHNOLOGY TO VILL	IN REACTOR CO	ORE -	WALL COORDINATE CALCULATIONS OF NOZZLE WITH REAL-GAS EFFECTS NASA-TN-0-1622	F HYPERSONIC	1/4-3/1 1/6
SPACE AND TIME SYNTHESIS BY VAR REACTOR CORE DESIGN PROBLEMS -		DLOGY	AXISYMMETRIC FLOW OF REAL GAS NOZZLES - COMPUTER METHOD FTD-TT-62-1057/16264	N63-16926	14-11
THERMAL STABILITY OF TEFLON IN AUSTENITIC STAINLESS STEEL AND MATERIALS	OTHER STRUCTUR	RAL	EQUATION FROM BLAST WAVE CORREI ON BLUNT NOSED CYLINDERS IN PE FLONS AT HYPERSONIC SPEEDS	LATION OF PRES	GAS
METHOD FOR DEFLECTION AND STRES PERFORATED MATERIAL AND ROLLED- REACTOR TECHNOLOGY	S ANALYSIS IN IN TUBE EFFECT N63-15267	12-33	REAL GAS FLOW FIELD PROPERTIES BLUNTED BODIES RF-TR-63-18	N63-22455	23-11
REACTOR TECHNOLOGY - PHYSICS RE KAPL-2000-20	PORT N63-17196		REAL TIME REAL TIME APPLICATIONS OF CELE- MERCURY PROJECT	STIAL MECHANIC	
REACTOR TECHNOLOGY - PROPERTIES AND FABRICATION NN-76559	OF FUEL MATER	15-01	ARS PAPER-2623-62 DATA PROCESSING SYSTEM IMPROVE	M63-11257	500
BOILING WATER AND LIQUID METAL- REACTORS - TECHNOLOGY, MAGNETOH	COOLED NUCLEAR	13 19-04	RECOVERY, DATA STORAGE, AND RE	AL-TIME CLOCK	13-20
SAFETY FACTORS			REAL-TIME ANALYSIS OF RANDOM V DEMSITY SPECTRA	IBRATION POWER N63-16094	13-15
REACTOR DEVELOPMENT PROGRAM - B REACTOR, LIQUID-METAL-COOLED RE RECYCLE REACTOR - REACTOR SAFET ANL-6749	ACTOR AND PLUT	JGY	RELAY COMMUNICATION SATELLITE TELEMETRY NASA-TM-X-50104	- REAL TIME	AM
PULSED NEUTRON SOURCE FOR REACT	OR MEASUREMENT	TS .	REAL TIME METEOROLOGICAL SYSTE PREDICTION OF UNGUIDED ROCKET AND NOTION EQUATIONS EROA-55	IMPACT - BALLI	STIC
REACTOR TECHNOLOGY & RADIOISOTO WORLD LITERATURE IITRI-1194-13	PE USES - SURV	VEY OF 23-23	ANALOG-DIGITAL COMPUTER FOR RE- NAVTRADEVCEN-594-1	AL-TIME SIMULA	10.3
REACTOR RESEARCH AND DEVELOPMEN HW-76118		23-23	REARRANGEMENT CF INVERSION	YARRA BUEYARI LILIGEETES-IRI	TARE -
REACTOR INSTRUMENTATION AND CON SEMP-79	TROL N63-23374	24-23	RECEIVER SA MULTICHAMMEL RECEIVER SA SUPERMETERODYNE RECEIVER	MOITHEGEN RADA	RECER S 84
NUCLEAR REACTOR TECHNOLOGY- AND NATERIALS BMI-1639/DEL-/	NITES STREET	23	AUTOMATIC FREQUENCY CONTROL FO BEACON RADAR RECEIVER NPD-6	R A MISSILE-BO	01-09
GING MACHINE UNIVERSAL PRINT READER - SCANNE	A MENTAL MAN	17au	PULSE RECEIVERS IN RADAR BEACO		ARRIE .
RECOGNITION, AND DATA PROCESSIN RADC-TOR-63-181			FREQUENCY MODULATION RECEIVER PIBHRI-1041-62	NOISE	HAR-NA
THE-DIMENSIONAL FILTERING TECHN INTERFEROMETERS, FILTERS, AND A	IQUE, OPTICS,	IN 04-23	MEATHER RADAR RECEIVER SYSTEM RANGE CORRECTION, AND VIDEO DI	- INSTRUMENTAT	10M. 06-21
PHOTOMULTIPLIER READ-OUT FOR BANETER STIGMATIC SPECTROSCOPE TDR-169/3210-06/TR-1	N63-12279	05-15	PROBABILITY DISTRIBUTION AT OUR RECEIVER UNDER BAND-LINITED WH PLUS NOISE	ITE NOISE AND	SIGNAL
MODIFICATIONS AND CORRECTIONS OF GENERATOR EQUIPMENT FOR DATA PRODISPLAY SYSTEMS	F READOUT TRIC	38	PIBMRI-1087-62 MAVY PROGRAM IN RADIO ASTRONOM RADIATION, RADIO STANS, MASER RECEIVER TECHNOLOGY		040
GENT CHEMICAL ANALYSIS OF BILIRUBIN PYRROLES BY PHOTOMETRY		30	AIRBORNE ELECTRONIC EQUIPMENT	- GLIDE SLOPE	14-09
L GAS REAL GAS FLOW CONDITIONS ABOUT	HYPERSONIC VE	ACCES	RADIO COMMUNICATION DIPOLE ANT ABSORPTION AND LOSS DUE TO GRO TRANSMITTER AND RECEIVER	ENNA - POWER UND PROXIMITY	55 E-00
COLLISION LIFETIMES AND THERMOD	YNAMICS OF REA	06-11	NBS-TN-175 PREAMPLIFIER AND CONVERTER FOR	VERY HIGH FRE	14-08 QUENCY
HYPERSONIC FLOW ANALYSIS - BEAL	CAS ON TOUR S	MUCK	RECEIVERS	N63-17718	16-15

COMMUNICATIONS SYSTEMS - THRESHOLD EFFECTS IN 45

HELICOPTER PILOT TRAINING, AERIAL RECONNAISSANCE,

REC

REC

RECOGNITION

SA NACHINE RECOGNITION
SA PATTERN RECOGNITION

SA TARGET RECOGNITION CF PERCEPTION FREQUENCY MODULATED RECEIVERS WITH RANDOMLY MODULATED SIGNALS N63-17935 VOICE COMMUNICATION SYSTEM - SPEECH PERCEPTION AND SOLID STATE TACTICAL AIR NAVIGATION RECEIVER-RECOGNITION N63-17644 16-M ESD-TOR-63-128 N63-18090 16-09 SPEECH-INTELLIGIBILITY AND TALKER-RECOGNITION TESTS OF AIR FORCE VOICE COMMUNICATION SYSTEM ESD-TOR-63-224 N63-22153 TUNING RANGE AND CONSTANT BANDWIDTH OF R. F. PRESELECTOR FILTERS DEVELOPED FOR AN/TRC-56 RADIO RECEIVER UNIT 22-04 THEORETICAL POSSIBILITY OF SPONTANEOUS IMAGE RADC-TDR-63-221 17-09 RECOGNITION SOLID STATE TRANSMITTING, RECEIVING, AND RADIO FREQUENCY SWITCHING N63-20176 20-09 N63-22928 23-14 IDRS-21376 RECOMBINATION TRECOMBINATION
SA RADIATIVE RECOMBINATION
SA RADIATIVE RECOMBINATION
SCALE EFFECTS AND COMPUTER CORRELATION TECHNIQUES
FOR HEAT TRANSFER WITH GAS PHASE AND SURFACE IONOSPHERIC RECEIVER WITH DOUBLE COHERENT WAVE N63-20523 20-12 DETECTORS IONOSPHERIC RECEIVER FOR HEAK SIGNAL DETECTION N63-20646 2 RECOMBINATION APPLIED TO HYPERSONIC FLIGHT 20-12 N63-11235 03-13 FREQUENCY SYNTHESIS FOR COMMUNICATION TRANSMITTERS RECOMBINATION COEFFICIENT OF THE NIGHTTIME RM-3756-PR N63-20901 N63-11324 21-09 F-LAYER 03-12 NITROGEN AND OXYGEN RECOMBINATION AT OXIDE SURFACES, EFFECT OF TESLA DISCHARGE ON RECOMBINATION HEAT TRANSFER INTERMODULATION INTERFERENCE IN MULTITRANSMITTER-MULTIRECEIVER ENVIRONMENT N63-21061 N63-11742 04-13 NASA-TN-D-1567 SHORT WAVE RADIO PROPAGATION - NARROW BAND GAIN, STABLE RECEIVER DEVELOPMENT AND IONOSPHERIC DOPPLER EFFECT MEASUREMENTS N63-21673 22-RECOMBINATION AND CONDENSATION PROCESSES IN HIGH AREA RATIO NOZZLES N63-12178 05-22-09 COMMAND RECEIVER SYSTEMS TEST AND MEASUREMENTS OF BANDWIDTH AND FREQUENCY RESPONSE, TEMPERATURE RECOMBINATION OF DISLOCATIONS IN GERMANIUM - PLASTIC DEFORMATION NASA-TH-X-50425 M63-21899 22-08 UNSTEADY DIFFUSION WITH RECOMBINATION IN TERNARY MIXTURE OF DIATOMIC MOLECULES, DISSOCIATED ATOMS, AND AM INERT GAS RECEIVER EMPLOYING NUCLEAR MAGNETIC RESONANCE FOR TUNING RADC-TDR-63-399 N63-22429 23-09 CHEMISTRY OF VENUS ATMOSPHERE - CARBON DIOXIDE, RECEIVING SYSTEM SOLID STATE AMPLIFIERS - PARAMETRIC AMPLIFIERS, TUNNEL DIODE AMPLIFIERS AND RECEIVER SYSTEMS DECOMPOSITION RESISTANCE, ABSORPTION, HICROMAVE EMISSION, OZOME, AND DIRECT RECOMBINATION N63-23137 ASD-TDR-63-845 RECOMBINATION AND DIFFUSION PHENOMENA IN SILICON SEMICONDUCTORS N63-14063 09-WIDEBAND LUNAR RELAY COMMUNICATIONS - ADAPTIVE RECEIVING ARRAY AFCRL-63-332 N63-23701 24-08 IMPORTANT CHARGED PARTICLE REACTIONS IN RECEPTION S RADAR RECEPTION S RADIO RECEPTION IONOSPHERE - ION-NEUTRAL PARTICLE REACTIONS, CHARGE EXCHANGE, DISSOCIATIVE RECOMBINATION NASA-X-615-62-132 N63-16672 14-12 CATALYTIC ACTIVITY AND ATOMIC RECOMBINATION IN STEP FUNCTION OXYGEN FLOW - HEAT TRANSFER CAL-AE-1412-4-2 N63-16923 16 RECIPROCAL THEOREM RECIPROCITY IN QUANTUM MECHANICS 14-11 NASA-TN-D-1985 N63-20347 20-23 CHARGED-PARTICLE RECOMBINATION IRRATIONALITY OF THE SUM OF RECIPROCALS OF FERMAT NUMBERS AND OTHER FUNCTIONS N63-23055 24-20 N63-17662 16-11 RECOMBINATION EFFECTS IN RELAXATION OF NON-EQUIPARTITION GAS MIXTURE OF IONS, NEUTRALS, AND RECIPROCATING ENGINE
COMBUSTION PROCESSES AND EFFICIENCY IN
RECIPROCATING ENGINES N63-10 N63-18593 17-26 PRANDTL-MEYER FLOW OF PURE, MONATOMIC GAS, INCLUDING IONIZATION AND RECOMBINATION EFFECTS NASA-CR-51556 N63-21847 2 AIR CUSHION VEHICLE - UTILIZING RECIRCULATION PRINCIPLE IN LIFT SYSTEM FOR GROUND EFFECT RECOMBINATION COEFFICIENT
COMPUTATIONS FOR ASSUMED DISTRIBUTIONS OF
RECOMBINATION COEFFICIENTS IN LOWER TOMOSPHERE TCREC-TR-62-99 N63-13798 GROUND EFFECT MACHINES MAN-CARRYING TEST VEHICLE UTILIZING RECIRCULATING EJECTORS FOR LIFTING SYSTEM - DESIGN, CONSTRUCTION & COMPONENT TESTIM No.3-14185 09-4 N63-21449 THREE-BODY RECOMBINATION RATE CONSTANTS FROM CURW OF VARIATIONAL THEORY RECIRCULATION PRINCIPLE FOR MAN-CARRYING GROUND N63-23097 24-61 EFFECT MACHINES - FLIGHT TEST RESULTS RECONNAISSANCE M63-16471 14-04 TCREC-TR-63-100 STABILITY AND CONTROL TESTING OF MODEL AO-1AF RECIRCULATING GROUND EFFECT MACHINE - MAN-CARRYING TEST VEHICLE /MCTV/ TRECOM-TR-63-27 LON ALTITUDE AERIAL RECONNAISSANCE - INSTRUCTION HUMRRO-TR-80 07-

23-14

OUES 03-13

34-13 IGN 35-26

65-25 AY MS, 7-11

8-21 00 9-25

+-12

i-11

-11

-12 RVE -01

.

MAVIGATION. INSTRUMENTATION. AERIAL GUNNERY N63-13083 07-14	ARTILLERY AND ROCKET LAUNCHER WEAPONS - TRANSDUCERS AND RECORDERS N63-16606 14-15
SEVERE WEATHER PROJECT - OBSERVATIONS BY RADAR, MADIOSONDE, SFERICS, AIRCRAFT AND TIROS SATELLITE - ROUGH RIDER PROJECT	RECORDING INSTRUMENT FOR ENVIRONMENTAL TESTING OF BIOLOGICAL SPECIMENS NAOC-MA-6119 N63-17328 15-15
MSSP-14 M63-16277 17-21 ARRIAL RADIOLOGICAL MEASURING SURVEY SYSTEM OVER HIGH-INTENSITY RADIATION FIELD OF SMALL AREA	CONTROL SYSTEM FOR RECORDING ELECTRONIC MODULE DEFECTS M63-17898 16-09
VISUAL PROBLEMS OF ARMED FORCES & SPACE TRAVEL - RECONNAISSANCE, INTERPRETATION, AND BATTLEFIELD	CONTACT LENS PHOTOELECTRIC EYE MOVEMENT RECORDING SYSTEM FPRC/MEMO-162 CHARACTER AND THE MESSAGE THE PROPERTY HES-18820 118-16
SURVEILLANCE RELATIONS TO HUMAN VISUAL PERCEPTION N63-19241 18-14	FREQUENCY SWEEP IN PHASE COMPONENT RESPONSE RECORDER FOR USE WITH HIGH SPEED FLUTTER MODELS ARA WIND TUNNEL NOTE-52 N63-19033 18-06
IMAGE ENHANCEMENT AID TO RECONNAISSANCE OR PHOTO INTERPRETATION - VISUAL PERCEPTION N63-19250 18-14	ELECTRON BEAM RECORDING TECHNIQUES RADC-TOR-63-234 N63-20013 19-09
MILITARY SIGNIFICANCE OF TARGET IDENTIFICATION IN AERIAL RECONNAISSANCE - IN-FLIGHT INTERPRETATION BY VISUAL PERCEPTION N63-19251 18-14	TAPE RECORDERS FOR NIMBUS SATELLITE - ELECTRONIC AND MAGNETIC SYSTEMS, CONTROL OF RECORD & READOUT NASA-RP-30 N63-21275 21-21
PICTORIAL DISPLAY FOR AERIAL RECONNAISSANCE - PHOTOGRAPH INTERPRETATION BY VISUAL PERCEPTION No.3-1925 2 18-15	COCKPIT VOICE RECORDERS UNDER HIGH AMBIENT NOISE CONDITIONS N63-22197 23-08
VISUAL PROBLEMS OF BATTLEFIELD INFORMATION COLLECTION FROM LOW FLYING AERIAL SURVEILLANCE	ATMOSPHERIC WHISTLERS - RECORDING AND WORKING METHODS AFCRL-63-714 N63-23093 24-12
AIRCRAFT N63-19257 18-04 ECOMMAISSANCE SPACECRAFT PROJECT CELESCOPE - ASTROPHYSICAL RECONNAISSANCE	RECORDING EQUIPMENT FOR GEOMAGNETIC MICAOPULSATION GRAPHS AFCRL-62-705 N63-23627 24-12
SATELLITE NASA-CR-50820 H63-19948 19-32 ECONDING INSTRUMENT AT TAPE RECORDER	RECOVERY SA PRESSURE RECOVERY SA SPACECRAFT RECOVERY JET-FLAP THRUST RECOVERY
SA MEATHER DATA RECORDER METHOD OF INCREMENTAL RECORDING ON MAGNETIC TAPE USHRDL-TR-548 N63-10316 01-15	SUDAER-136 MAS-10314 01-03
FORCE MEASUREMENTS ON A DATA CAPSULE IN THE MAKE AND FLOW FIELD OF A CARRIER VEHICLE AT MACH 8 AEDC-TDR-62-220 N63-11425 03-02	RECOVERY REENTRY AND RECOVERY OF FRAGMENTS OF SPUTNIK IV SAO SPECIAL REPT. 109 N63-12119 05-05
REVIEW OF INSTRUMENTS FOR RECORDING PHYSIOLOGIAL RESPONSES IN MAN WHILE PERFORMING PHYSICAL WORK N63-12067 05-16	ECONOMIES IN MATIONAL SPACE PROGRAM - ASTROPLANE - STANDARDIZATION TECHNIQUES, SEA-LAUNCHED BOOSTERS - CONGRESSIONAL REPORT
LINEAR POWER DETECTION AND RECORDING INSTRUMENT SYSTEMS FOR KINETIC EXPERIMENTS ON MATER BOILERS NAA-SR-7077 N63-12208 05-15	N63-12292 05-01 SPIN AND RECOVERY CHARACTERISTICS OF HORTH AMERICAN X-15 AIRCRAFT
DEVICE FOR RECORDING FUEL ELEMENT DIMENSIONS DIRECTLY ON PUNCHED PAPER TAPE IN DECIMAL DIGITAL FORM	NASA-TH-X-294 NASA-TH-X-294 SELF ERECTING FLEXIBLE FOAM STRUCTURES FOR SPACE ANTENNAS - RECOVERY AND STRESS-STRAIN PROPERTIES -
ENDLESS-LOOP MAGNETIC TAPE RECORDER FOR TIROS	VACUUM AND SOLAR RADIATION EFFECTS NASA-TN-D-1610 N63-13167 QT-08
SATELLITE MASA-TN-D-1542 N63-13097 07-08	FLIGHT CONTROL, MONITORING, AND RECOVERY - MANNED SPACE FLIGHT N63-17611 15-30
RECORDING OF TIME-DEFORMATION DURING CREEP-RUPTURE TESTING AT 1200-DEG F N63-13237 07-33 GROUND DIGITAL COMMUNICATION SYSTEM FOR CIVILIAN	ELECTRODIALYSIS FOR RECOVERING POTABLE MATER FROM URINE AMRL-TDR-63-30 N63-17491 16-16
AIRLINE FLIGHT TIME IMPROVEMENT N63-13364 08-08	ELECTROLYSIS CELL/FUEL CELL METHOD OF RECOVERING POTABLE WATER FROM URINE AMRL-TOR-63-32 M63-17503 16-16
EARTH CURRENT RESEARCH IN AURORAL ZONE - RECORDING INSTRUMENTS, X-Y PLOTTER, CYCLE COUNTING, LITERATURE	POTABLE WATER RECOVERY FROM AQUEOUS WASTES DEVELOPED IN FALLOUT SHELTER MG3-17607 16-16
PAINTED TAPE BUFFER EQUIPMENT EVALUATION	DETECTION AND MEMORY IN VISUAL DISCRIMINATION RECOVERY TASK
AFCRL-62-891 N63-14183 09-20 MIGH DENSITY DIGITAL RECORDING TR 63-12 N63-14330 10-20	ESO-TOR-63-343 N63-17762 16-14 HIGH ALTITUDE PARACHUTE TESTING - SPACE CAPSULE RECOVERY
MODIFICATION OF IONIZATION METHOD ESPECIALLY SUITABLE FOR CONTINUOUSLY RECORDING CONTACT	MASA-TH-X-232 M63-17991 16-04 PEASIBILITY OF LAUNCH VEHICLE RECOVERY
POTENTIAL DIFFERENCES N63-16388 14-24	AIAA PAPER-63-247, 174 to VI 34194 N63-18216 117-31

INSTRUMENTATION FOR DYNAMIC DATA ACQUISITION ON

MATER RECOVERY FROM CELLULOSE ACETATE REMBRANES

REDUI PI

SA CF

NASA-CR-50642 RECOVERY OPERATION FOR MERCURY PI RECOVERABLE SPACE PROBE NMC-TM-62-22 SATURN Y BOOSTER SI-C STAGE RECO		19-07	ZONE REFINED BERYLLIUM RECRYSTALL	FOR TENSI	E FORM
RECOVERABLE SPACE PROBE NMC-TM-62-22				N63-19985	
NHC-TH-62-22		22-10	PROPERTIES PHASE RECRYSTALLIZATION IN DIFFUSI		19-17 MTUR
	N63-22203	23-04	INTO MOLYBDENUM	N63-23738	24-18
	VERY FEASIRE	ILITY	RECTANGULAR INTAKE		1 102 6
STUDY		23-30	PRESSURE RECOVERY AND MASS FLOW DI MULTI-SHOCK AND ISENTROPIC EXTERNA	F RECTANGUE	AR
EVALUATION OF RETINAL PERFORMANCE			INTAKES AT MACH 2.9 ARC-CP-630	N63-13848	09-11
OF VISUAL DISCRIMINATION RECOVER' PHOTOSTRESS SAM-TOR-63-47		24-16	RECTANGULAR WIND TUNNEL UPWASH IN RECTANGULAR WIND TUNNEL	WITH VISCO	NIS.
			FLOW - BOUNDARY CONDITIONS		-
RECOVERY CONTROL CENTER /RCC/ RECOVERY CONTROL CENTER CONCEPTS OPERATIONAL SUPPORT SYSTEMS FOR I		ICLES 16-30	WALL CORRECTIONS FOR WINGS OSCILLA RECTANGULAR WIND TUNNELS UNDER SYN		15-20 IR
RECOVERY CONTROL CENTER FOR HYPER WITH AERODYNAMIC CONTROL - GROUND SUPPORT			ANTISYMMETRICAL LOADING ARC-REM-3312 RECTANGULAR WIND TUNNEL FOR BOUNDA	N63-23250	24-0)
RECOVERY DEVICE	3112121	10/10	INVESTIGATIONS FTD-TT-63-646/162	SKAME, DIZL	24-02
LONG TETHERLINES FOR ORBITAL DOCK	KING OR RECO	VERY	RECTANGULAR WING		14-11
OF ASTRONAUT OPERATING IN SPACE AMRL-TDR-62-123	N63-11788	04-16	CHARACTERISTICS OF A RECTANGULAR N PERIPHERAL JET IN GROUND EFFECT -	PART 2	
AERODYNAMIC CHARACTERISTICS OF CA			UTIA-TN-59	163-10543	
ATTACK, SIDESLIP ANGLE NASA-TN-D-1776	N63-15235	11-03	AERODYNAMIC CHARACTERISTICS OF FLA SHAPED PLATES AND OSCILLATING RECT SUPERSONIC FLOW		
PERFORMANCE OF FLAT-STAGGERED FILE RECOVERING TONE BURST TELEMETRY S	SIGNALS	13-08		163-11832	04-03
TERMINAL GUIDANCE FOR REENTRY VEH		OVERY	EDGE, CIRCULAR CYLINDER, RECTANGUL		10-0)
DEVICES AND GROUND SUPPORT RELIABILITY OF RECOVERY SYSTEMS	N63-17971	16-30	RECTIFICATION MICROWAYE ENERGY CONVERSION BY SEP	I CONDUCTOR	1
ANY NOTINE AND ADDRESS OF YOUR	N63-23322	24-04	DIODE, HOT CATHODE, OR BULK SEMICO RECTIFICATION		100
PARAVULCOON RECOVERY AND LANDING PARACHUTE AND HOT GAS BALLOON FOR LANDING ON MARS AND VENUS		24-03	RECTIFIER TITHE THIS THIS WAS A STANDAUN		
RECOVERY SYSTEMS CONSIDERATION -	N63-23325	24-06	IMPROVED RELIABILITY, WEIGHT AND E SILICON CONTROLLED RECTIFIER - SHO WITH ZENER BLOCKING, SCR STEERING,	INT COMMUTA	TOR
DECELERATION /PARACHUTE/ SYMPOSIU SUPERSONIC	IN - HYPERSO	NIC &	RELIABILITY OF STATIC CONVERTER US CONTROLLED RECTIFIERS AND PULSEWID	ING SILICO	IN
ASD-TDR-63-329	N63-23314	24-01		163-14168	09-06
ECOVERY TEMPERATURE DELTA WINGS AT SUPERSONIC SPEED - RECOVERY TEMPERATURE, AND PRESSUR FFA-93	HEAT TRANS		DIRECT CURRENT SILICON CONTROLLED CONVERTER USING NONLINEAR TRANSFOR NASA-CR-50556		17-09
ECOVERY ZONE			1400 VA AND 500/25 VA INVERTER EVA SILICON CONTROLLED RECTIFIERS EMPL		編
ANALYSIS OF MA-7 AND MA-8 FLIGHT SPLASH POINT, RETROROCKET YAW ANG			SWITCHING DEVICES SSD-TDR-63-91-11		16-01
	N63-14958		AUDIOFREQUENCY GENERATORS USING SI RECTIFIER INVERTERS		
ECRYSTALL IZATION	LI STEPSORYS		NEL-1175 THE PERSON NELT N	163-23072	24-01
BERYLLIUM RESEARCH - ELECTRON MIC RECRYSTALLIZATION, AND IMPURITIES NMI-9522		WDER, 01-18	RECURSION FORMULA RECURSION RELATION DEVELOPED FROM	CERTAIN	
STRUCTURAL CHANGES DURING HARDENI	CONTRACTOR A	454	DETERMINANTS, COMPUTATIONAL ROUTIN	E TO EVALU	
RECRYSTALLIZATION OF MOLYBOENUM	N63-12187	05-18	NASA-TN-0-1112		
RECOVERY & RECRYSTALLIZATION OF Z ANNEALING EFFECTS IN ZIRCALOY 2 & NN-69680	3	LOYS -	TOTAL MECORDINAL DATES OF	6-J SYMBO	
RECRYSTALLIZATION OF SINGLE CRYST ALUHINUM AND ALUMINUM ALLOYS		ER, 19-18	S SUBVISUAL RED		Sex
DEFORMATION TWINNING IN PLASTIC D FRACTURE, AND RECRYSTALLIZATION O	EFORMATION,	KIA.	RED SHIFT HYDRODYNAMICAL RED SHIFT PHENDMENA	IN GEOPHY 163-19567	SICS 19-21

Un

4-18

9-11

5-20

6-01

4-02

-04

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-03

-09

-06

-06

-09

89

EĐ

23

71

RADIATION AND IONIZATION PROBLEMS IN REENTRY

N63-10237 01-28 REDUCTION
SA DATA REDUCTION
SA DRAG REDUCTION SYMPOSIUM ON BALLISTIC MISSILE & SPACE TECHNOLOGY, 1962 - VOL 1, SPACE VEHICLES, HYPERSONICS, REENTRY, STRUCTURES, MATERIALS & RELIABILITY AM-84 SA FRICTION REDUCTION CHEMICAL REACTION
LARGE SIGNAL TRAVELING WAVE TUBES & AMPLIFIERS,
DEFRESSED POTENTIAL COLLECTORS, ELECTRON BEAM GUNS
KLYSTRONS, LOW NOISE CRESTATRONS & MAGNETRONS
ADO-TOR-63-8
N63-14001 09-20 REENTRY PHYSICS, RAREFIED GASDYNAMICS, PLASMA PHYSICS, SPACE SCIENCES N63-10601 02-01 PLASMA PHYSICS AND MAGNETOHYDRODYNAMICS -BIBLIOGRAPHY AD-271170 M63-10724 VIBRATION ENERGY LEVEL AND NOISE REDUCTION IN PLIGHT VEHICLES N63-17942 16-23 BASE FLOW CHARACTERISTICS OF BLUNT AND SLENDER PROBABILITY THEORY APPLIED TO RELIABLE NETWORK DESIGN - REDUNDANT SYSTEMS AND FAILURE MODES -BODIES R625096 02-02 STATISTICS HEATING UPON ENTRY INTO PLANETARY ATMOSPHERES FROM SUPERCIRCULAR ORBITING VELOCITIES N63-14851 11-09 RELIABILITY OF REDUNDANT ADAPTIVE FLIGHT CONTROL SYSTEMS FOR SPACE VEHICLES N63-17279 15-N63-11071 03-33 MAGNETIC FIELDS IN DIAGNOSTIC METHODS FOR IONIZED GASES - PROBING PLASMA SHEET DURING REENTRY TDR-169/3153/TR-1 N63-12104 05-1 RELIABILITY OF REDUNDANT ANALOG CIRCUITRY FOR USE IN RELAY SATELLITES N63-17281 15-0 REENTRY AND RECOVERY OF FRAGMENTS OF SPUTNIK IV SAO SPECIAL REPT.-109 M63-12119 05 RELIABILITY ANALYSIS OF REDUNDANCY MECHANISMS 15-20 AMES ATMOSPHERE ENTRY SIMULATOR AND ITS USE IN DETERMINING CHARACTERISTICS OF ETHYL CELLULOSE AS ABLATIVE HEAT SHIELD FOR BALLISTIC MISSILES NASA-TW-X-394 06-16 MICROELECTRONICS R&D - CIRCUIT REDUNDANCY & ADAPTATION, SURFACE-FIELD EFFECT TRANSISTOR, SUPERCONDUCTIVE TRAPPED FLUX MEMORY Z-FUNCTION SOLUTIONS FOR MOTION AND HEATING DURING CONTROL OF COMPUTER RELIABILITY WITH REDUNDANT 19-09 ATMOSPHERE ENTRY FROM EQUATORIAL ORBITS OF ROTATING PLANETS N63-12686 06-29 REDUNDANT EQUIVALENT LINEAR PASSIVE NETWORKS -IMPEDANCE INSTABILITY AMALYSIS AFCRL-63-140 N63-19429 19 SPACECRAFT GUIDANCE AND CONTROL DURING REENTRY 19-09 IAS-PAPER-63-86 N63-12902 COMPLEX REDUNDANT STRUCTURE ANALYSIS BY FLEXIBILITY METHOD HYPERSONIC FLOW DURING REENTRY - GAS THERMO-DYNAMICS, REENTRY BODY SHAPES, BALLISTIC AND LIFTING REENTRY MOTION EQUATIONS NASA-CR-50755 N63-19942 19-34 REDUNDANT MEASUREMENTS FOR SPACE NAVIGATION RANDOM VARIABLES, STATE VECTOR, BAYES ESTIMATOR AIAA PAPER-63-333 N63-20757 21 REENTRY TRAJECTORY CALCULATION, FLOW FIELD ABOUT BLUNTED NINE-DEGREE CONE GASL-TR-256 I N63-13452 09-21-29 IMPROVING RELIABILITY OF DIGITAL COMMUNICATION USING REDUNDANCY IN UNCERTAINTY REGION RECEPTION AFCRL-63-187 N63-20836 21-FLOW FIELD OF TRAILBLAZER I BLUNT BODY UNDER REENTRY CONDITIONS MAN RANGES 200 27 N63-13477 ... 08-02 PROBABILITY CHARACTERISTICS OF SENSOR OUTPUTS TO REDUCE REDUNDANT INFORMATION TRANSMISSION INVESTIGATION IN ATMOSPHERE ENTRY SIMULATOR OF NYLON AS ABLATIVE MATERIAL FOR BALLISTIC MISSILE MASA-TM-X-114 N63-13893 09-N63-21405 22-20 ages. TAPE REELING SYSTEMS M63-14841 STATIC STABILITY AND CONTROL CHARACTERISTICS OF MANNED LENTICULAR REENTRY CONFIGURATION AT LOW SUBSONIC SPEEDS NASA-TH-X-431 N63-13908 05 11-06 SA LIFTING REENTRY SA LIPTING RECEIVED
CF ATMOSPHERIC ENTRY
HEAT TRANSFER PROBLEMS IN HYPERSONIC BOUNDARIES
N63-10016 01 ARTIFICIAL METEOROID - TYPE 304 STAINLESS STEEL PROJECTILE FROM A SOUNDING ROCKET AT HYPERVELOCITY AFCRL-62-803 N63-14180 09-12 01-13 UNSTEADY HYPERSONIC WAKE BEHIND SPHERES EFFECT OF BODY GEOMETRY ON TURBULENT HYPERSONIC N63-10068 BSD-TDR-62-105 01-02 WAKE OF REENTRY 8SD-TOR-62-354 N63-14449 ABLATION MECHANISMS OF CHARRING POLYMERS DURING HYPERSONIC REENTRY N63-10099 G1 N63-10099 01-19 HEAT & IMPACT TEST ON INSULATED & UNINSULATED FUSE RECHANISM OF BALLISTIC MISSILE IN REENTRY AERODYNAMIC HEATING NASA-MENO-12-5-5BL M63-14750 11-02 REENTRY DYNAMICS - SPACECRAFT, ATMOSPHERE, THERMAL PROTECTION, TRANSPORT PROPERTIES M63-10230 A-BAND TELEMETERING FOR RADIO INTERFERENCE -REENTRY COMMUNICATION IN EARTH ORBIT REENTRY ROCKETS IN NASA SPACE PROGRAM 01-31 M63-10232 N63-14953 11-08 CP-63-663 PROPERTIES OF THE ATMOSPHERE N63-10233 01-12 INERTIAL NAVIGATION ERROR AMALYSIS OF SPACE VEHICLE DURING REENTRY NASA-TN-D-1772 N63-15473 TRANSPORT PROPERTIES OF GASES - REENTRY DYNAMICS N63-10235 01-01-23 12-30 REAL GAS FLOW CONDITIONS ABOUT HYPERSONIC VEHICLES
N63-10236 01-11 NOVING-COCKPIT-SIMULATOR STUDY OF PILOT PERFORMANCE DURING REENTRY AT PARABOLIC VELOCITY MASA-TM-0-1797 N63-15562 12-10

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STRUCTURES FOR MANNED ENTRY VI	N63-16060	13-34	CHEMICAL KINETICS IN REENTRY FLOW FIELD R63SD63 No.3-21237 21-1
FLIGHT TEST CRITERIA FOR REENT POWER SYSTEM 10A AFSMC-TDR-62-83	CALL A TOURS IN COURSE ON	13-30	REENTRY GUIDANCE AND CONTROL IN NEAR-EARTH ORBITS AND NEAR ESCAPE VELOCITY AS WELL AS IN DEEP SPACE AND AT VELOCITIES IN EXCESS OF ESCAPE VELOCITY ATAA PAPER 63-318
SYSTEM FOR NUCLEAR AUXILIARY F CORE HEATING DURING REENTRY MND-P-3019-I	POWER PROGRAM N63-16331	- FUEL 13-30	AEROSPACE NUCLEAR SAFETY FOR SNAP PROGRAM -
SYSTEM FOR NUCLEAR AUXILIARY P ATMOSPHERE EXPERIMENTAL REENTP MND-P-2953		- UPPER 13-30	NAA-SR-8303 N63-22359 23-1 ARC HEATER FOR REENTRY SIMULATION N63-22962 23-1
RADIO FREQUENCY BLACKOUT PHENO SIBLIOGRAPHY SB-62-18	MENA ON REENT	14-08	SOLUTION OF NONSIMILIAR, NONEQUILIBRIUM VISCOUS FLOW EQUATIONS FOR REENTRY VEHICLE MAKES N63-23086 24-1
SHOCK WAVE GENERATOR - HEAT TR DISTRIBUTION - SURFACE TEMPERA TRAJECTORY	TURE AND REEN		LUMAR LANDING & LONG RANGE EARTH REENTRY GUIDANCE BY SINGLE NOMINAL TRAJECTORY USING PERTURBATION THEORY N63-23221 24-2
PIBAL-437 REENTRY STABILITY AND TRAJECTO		14-13 OR	VEHICLES FOR CIRCULAR AND HYPERBOLIC ENTRY BY MANNED SPACECRAFT N63-23223 24-0
CONICAL VEHICLE CA-4291-0065	N63-16937	14-29	REENTRY PHYSICS - CONVECTIVE AND RADIANT HEATING OF HEAT SHIELD-PAYLOAD FRACTIONS
LONGITUDINAL RANGE OF SPACE VE USING VARIABLE PITCH CONTROL.	CONSTANT ALTI	TUDE	N63-23236 24-0
NASA-TN-0-1811 ANNOTATED BIBLIOGRAPHY - MISSI	and the second second second	15-30	HEATING EFFECT ON SPACECRAFT REENTRY AT SUPERSONI SPEED - DECÉLERATOR PROBLEMS N63-23315 24-1
MID-FLIGHT AND REENTRY SB-61-68		16-30	FLIGHT INSTRUMENTATION FOR REENTRY PLASMA SHEATH INTERACTION OF IONIZEO GAS WITH MAGNETIC FIELD FO POWER AND ATTITUDE CONTROL
REENTRY GUIDANCE FROM GROUND O SYSTEM FOR SPACE VEHICLES	PERATIONAL SU N63-17972	PPORT 16-30	TDR-169/3153-20/TN-1 N63-23434 24-2
ANGLE OF ATTACK AND BANK-ANGLE REENTRY GLIDER - LATERAL OSCIL	LATION		REENTRY ANALYSIS /RAMTAC/ REENTRY STABILITY AND TRAJECTORY ANALYSIS FOR CONICAL VEHICLE CA-4291-0065 N63-16937 14-2
	N63-17974	16-30	CONTRACTOR STATE OF THE STATE O
DYNAMIC STABILITY OF PROJECT M DURING REENTRY - DISPERSION AT PARACHUTE DEPLOYMENT NASA-TM-X-350			INFRARED EMISSION FROM HYPERSONIC AIR FLOMS - REENTRY FLOW FIELD ANALYSIS AND PREDICTION OF SPECTRAL RADIATION AND ELECTROM DENSITIES CAL-QM-1626-A-11 N69-19623 19-1
PHYSICAL PROPERTIES OF MOON & ATMOSPHERES, RADIOMETRY, REENT CALCULATIONS			OBSERVED RADIATION PATTERN DURING ACTUAL REENTRY AMD SPECTROGRAPHIC STUDIES OF RADIATION FROM PROJECTILES IN HYPERSONIC FLIGHT
NASA-CR-50576		17-29	CARDE-TN-1564/63 N63-20919 21-2
REENTRY MAKE OF BLUNTED HYPERS SOLUTION FOR NONVISCOUS LAMINA D2-22040		E - 17-02	REENTRY BODY ATMOSPHERIC ATTENUATION MEASUREMENT - TRANSMISSOMETER, RADIOMETRIC & PHOTOMETRIC DATA O REENTRY BODIES - DAMP PROJECT
HYPERTHERMAL RESEARCH FACILITY TESTING AND SIMULATION OF REEN		BLATION	DR-31 N63-22476 23-0
ENVIRONMENT NASA-CR-50441		18-10	INTERACTION OF RADAR BEAM WITH IONIZED GASES SURROUNDING BLUNT BODY REENTERING EARTH ATMOSPHER
MOON TO EARTH TRAJECTORIES SAT EARTH REENTRY CONDITIONS	ISFYING SPECI	FIED	CARDE-TR-466 N63-22924 23-2 REENTRY DECOY
NASA-TN-D-1939	N63-19276	16-29	BALLISTIC MISSILE DECOY OPTIMIZATION THROUGH DYNAMIC PROGRAMMING N63-10379 01-3
DISPERSAL OF REACTOR CORE MATE DISINTEGRATION PROCESS			REENTRY EFFECT
CAL-AA-1506-W-1 NONEQUILIBRIUM PLASMA FLOW, MI AND BACKSCATTERED RADIATION AS			HEAT TRANSFER AND PRESSURE DISTRIBUTION OVER REENTRY CONFIGURATION FOR FIVE-STAGE SCOUT VEHICL NASA-TN-D-1790 N63-16294 13-3
REENTRY PHYSICS GDA-63-0173	N63-20292	20-13	STANDARDIZATION OF REENTRY MATERIALS TESTING
NOTES ON SATELLITES, SPACE NAV TRAJECTORIES, REENTRY, TRACKIN	G AND COMMUNIC		MILLIMETER MAVELENGTH RADARS TO STUDY PLASMA EFFECTS OF HYPERSONIC VELOCITY PROJECTILES - REENTRY EFFECTS TR-63-2178 N63-21952 22-1
COLLISIONAL PROCESSES LEADING EXCITATION AND IONIZATION BEHI DURING REENTRY	TO ELECTRONIC	THE DEA S 1977 S 5-189	HEATING EFFECT ON SPACECRAFT REENTRY AT SUPERSON
NOLTR-63-33	N63-20420	20-11	SPEED - DECELERATOR PROBLEMS ' N63-23315 24-1 REENTRY VEHICLE
NUMERICAL COMPUTATION OF TRANS	MISSION & REF		SA TRAILBLAZER I REENTRY VEHICLE
COEFFICIENTS OF INHOMOGENEOUS APPLICATION TO TELEMETRY PROBLE			SA TRAILBLAZER II REENTRY VEHICLE CF SPACECRAFT PROJECT FIRE - SPACE AND REENTRY VEHICLE

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MASA-TN-D-1497 SMSTAGS SHIPS ME	240,146,140	01-02 01-30	REENTRY VEHICLES AT MACH 3-11 - EFFECTS OF CONTROLS AND LEADING-EDGE EXTENSIONS NASA-TM-X-272 N63-12916 07-02
THERMODYNAMIC PROPERTIES OF HIGH TO	ENPERATURE	AIR	SUBSONIC AERODYNAMIC CHARACTERISTICS OF DELTA- MING REENTRY VEHICLE MITH FOLDING MINGTIP PANELS
THERMAL PROTECTION AND STRUCTURES		DEMON .	NASA-TM-X-288 N63-12918 07-02 PRESSURE DISTRIBUTIONS OVER FORMARD PORTION OF PROJECT FIRE SPACE-VEHICLE CONFIGURATION AT
GROUND FACILITIES FOR TESTING REEN AND MATERIALS	TRY STRUCTO	URES 01-10	SUBSONIC SPEED NASA-TN-D-1612 19 - YTTOTEZA (300 N63-12950 07-02
LATERAL RANGE CONTROL BY BANKING DI PHASES OF SUPERCIRCULAR REENTRIES HASA-TH-D-1511	URING INIT: 63-10328	01-32	STATIC LONGITUDINAL STABILITY CHARACTERISTICS OF MINGED REENTRY VEHICLE HAVING LARGE NEGATIVELY DEFLECTED FLAP-TYPE CONTROL SURFACE MASA-TH-X-179 MOJ-12903 07-02
2.4710.77 (4117.58)	S 63-10378	01-30	LATERAL AND LONGITUDINAL RANGES OF HYPERSONIC GLOBAL REENTRY VEHICLE EFFECTS OF BANK ANGLE. BANKING POSITION AND DURATION
CONTROL OF REENTRY FROM ORBIT	THE BEST THERED !		NASA-TH-D-1617
AERODYNAMIC HEATING OF AXISYMMETRI		BODY	HYPERSONIC FLOW DURING REENTRY - GAS THERMO- DYNAMICS, REENTRY BODY SHAPES, BALLISTIC AND LIFTING REENTRY MOTION EQUATIONS
THERMAL DIFFUSIVITY MEASUREMENTS OF TEMPERATURE DISTRIBUTION, REENTRY CONVERSION			AERODYNAMIC FIELD PRODUCED BY REENTRY BY FLYING AIR IN THERMODYNAMIC EQUILIBRIUM
CONVERSION IS-492 The HOLDER OF A STREET STORY N		02-13	1 12 14 14 14 14 14 14 14 14 14 14 14 14 14
ELECTROMAGNETIC INTERACTION WITH TO	HE WAKE OF	F-AZAW-1/	FLOW FIELD OF BLUNTED 9-DEGREE COME - DOWNSTREAM AND SHOCK LAYER INVISCID FLOW AND FAR MAKE LAMINAR FLOW OF TRAILBLAZER II REENTRY BODY
ENTRY OF SPACE VEHICLES INTO PLANE	TARY ATHOS	PHERES	GASL-TR-256 II N63-13459 08-02 AERODYNAMIC CHARACTERISTICS AT MACH 6-77 OF 9-DEG
LANDING CHARACTERISTICS OF WINGED WITH ALL-SKID LANDING GEAR HAVING	REENTRY VE	HICLE	COME, MITH AND MITHOUT SPHERICAL AFTERBODY AND NOSE BLUNTING AT ANGLES OF ATTACK TO 180-DEG NASA-TW-D-1606 N63-13562 08-02
SHOCK ABSORBERS	63-10797	02-30	MATER LANDINGS OF WINGED REENTRY CONFIGURATION HAVING DUTBOARD FOLDING WING PANELS - MODELS USED
AXISYMMETRIC DYNAMIC BUCKLING OF C SPHERICAL SHELLS			NASA-TH-X-62 N63-13891 09-11 FREE FLYING 1/3-SCALE MODEL OF A LIFTING REENTRY
THERMOSTATIC TEMPERATURE CONTROL D REENTRY OF HYPERVELOCITY SPACE VEH	ICLES	N 30 IV	CONFIGURATION AND LOW SUBSONIC STABILITY AND CONTROL CHARACTERISTICS NASA-TH-X-297 NASA-TH-X-297 NASA-TH-X-297
HYPERSONIC AERODYNAMIC LOADS ON REVEHICLES	63-11073		MIND TUNNEL TESTS OF BLUNT REENTRY VEHICLE WITH RETRACTABLE WINGS NASA-TM-X-398 N63-13904 09-32
PREDICTION TECHNIQUES APPLICABLE T	O REENTRY	FOR 191	LENTICULAR-SHAPED REENTRY VEHICLE STATIC LONGITUDINAL AERODYMANIC CHARACTERISTICS AT
WING LEADING EDGE OPTIMIZATION FOR VEHICLES			TRANSONIC SPEEDS NASA-TN-X-423 N63-13906 Q9-32
	163-11237	03-02	SUBSONIC AERODYNAMIC CHARACTERISTICS OF DELTA-WING REENTRY VEHICLE WITH VERTICALLY DISPLACED AND CAMBERED WING-TIP PANELS
AERODYNAMICS OF SPACE VEHICLES	63-11513	E-283K	NASA-TH-X-440 R377 N63-13909a1 09-32
HEAT CONDUCTION IN THE SKIN OF A R COMPUTER PROGRAM CARDE-TH-66/62		ICLE - 04-20	EFFECT OF LONGITUDINAL AND LATERAL CONTROLS ON WINGED REENTRY CONFIGURATION AT MACH 1.97 AND ANGLES OF ATTACK UP TO 90-DEGREES NASA-TH-X-449 NASA-TH-X-449 NASA-TH-X-449
STATIC LONGITUDINAL AERODYNAMICS O BODY SHAPES FOR USE AS REENTRY CON HYPERSONIC SPEED AND ANGLES OF AT NASA-TH-X-05	F WING AND	BLUNT S AT 90-DEG	AERODYNAMICS OF DISK REENTRY CONFIGURATIONS, FOR MANNED SPACE FLIGHT, WITH ELLIPTIC CROSS SECTIONS AND THICKNESS DIAMETER RATIOS OF 0.225 AND 0.325 NASA-TN-X-566 N63-13913 09-32
STATIC LONGITUDINAL STABILITY CHAR BLUNTED GLIDER REENTRY CONFIGURATI WASA-TM-X-222	ACTERISTIC	Sg OF UP - 00 1 80 9 M 1	POSSIBLE CAUSALITY OF RADIATION OVERSHOOTS IN WAKE OF PROJECTILE BY DECREASING TEMPERATURE - HYDROCARBON ABLATORS AE62-0014 N63-13969 09-30
WIND TUNNEL INVESTIGATION AT SUBSO SPEED OF STATIC AERODYNAMIC AND CO CHARACTERISTICS OF CAPSULE-BOOSTER NASA-TH-X-317	MODEL 163-12559	06-02	DISK SHAPED REENTRY BODY AT TRANSONIC AND LOW SUPERSONIC SPEEDS NASA-TM-M-652 N63-1468L 10-02
RADIATION FROM REENTRY BODY AT SUP VELOCITIES - SMOCK TUBE STUDIES IAS-PAPER-43-77	PERORBITAL	# # # # # # # # # # # # # # # # # # #	FREE FLYING MODEL OF A MALF COME REENTRY VEHICLE NASA-TH-X-665
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STATIC STABILITY OF SQUARE AND CIRCULAR PLANFORM

STATIC STABILITY INVESTIGATION OF SUPERSONIC

THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	N63-14757 11-02	INTERMETALLIC PROTECTIVE COATING FOR TANTALUM AND NIOBIUM ALLOYS SUBJECTED TO REENTRY VEHICLE ENVIRONMENT - REFRACTORY METAL
FREE FLIGHT TESTS OF LIFTING S VEHICLES AT MACH 0.6 TO 1.5		NASA-CR-50540 N63-18416 17-17
NASA-TH-X-437	11-02	NIOBIUM ALLOY AS STRUCTURAL MATERIAL FOR REENTRY VEHICLES
LIFTING SURFACE FOR REENTRY VE SAILS HAVING DELTA WING PLANFO	DRMS	D2-35105 N63-18650 17-19
Jeans San San State Street	M63-14772 11-33	LANDING & IMPACT CHARACTERISTICS OF REENTRY VEHICLE HAVING MULTIPLE—AIR BAG LOAD—ALLEVIATION SYSTEM — DYNAMIC TEST MODEL
SURVEY OF AEROTHERMOELASTICITY X-15 AIRCRAFT, STRUCTURAL DYNA STRESS, VIBRATION AND PANEL FL	AMICS, THERMAL LUTTER	NASA-TN-D-1934 N63-18772 17-30
ATTAILMEN SOUTH SMILLS	N63-14895 11-02	ORBITAL HEAT BALANCE TEST OF H-30A SATELLITE REENTRY VEHICLE N63-18815 18-30
X-BAND TELEMETERING FOR RADIO REENTRY COMMUNICATION IN EARTH VEHICLE	ORBIT REENTRY	GUIDANCE SCHEME USING APPROXIMATE SOLUTIONS OF TRAJECTORY EQUATIONS TO CONTROL THE AERODYNAMIC
CP-63-663	N63-14953 11-08	SKIP FLIGHT OF REENTRY VEHICLE NASA-TN-D-1923 N63-19180 18-19
PHOTOGRAPHIC TRACKING OF HYPER REENTRY VEHICLE	SONIC TRAILBLAZER	SHOCK WAVES ON HYPERVELOCITY FLOW IN A SOLID
AFESO-TOR-62-117	THE RESERVE AND ADDRESS OF THE PERSON OF THE	PROPELLANT DRIVEN TUNNEL FOR SIMULATING CONDITIONS OF SHOCK LOADING ON REENTRY VEHICLES
AERODYNAMIC CHARACTERISTICS AT 5TH STAGE SCOUT REENTRY VEHICL	LES AT MACH 0.6 TO	DASA-1378 N63-21020 21-20
24.4 - REYNOLDS NUMBER EFFECTS NASA-TN-D-1638	N63-15694 12-31	ENTRY VEHICLE LANDING FLARE ANALYSIS SH-42632 N63-22937 23-10
WAKE ANALYSIS BEHIND OSCILLATI USING OSEEN LINEARIZATION - DO MEASUREMENT PROGRAM	DWNRANGE ANTIMISSILE	NONEQUILIBRIUM & EQUILIBRIUM RADIATION AT LUMAR & INTERPLANETARY VEHICLE REENTRY VELOCITIES NASA-CR-51743 N63-23019 24-34
DAMP-TM-62-27	PLIN OF TRATERERS	HEAT TRANSFER ON HYPERSONIC VEHICLE ENTERING A
SPACE SCIENCE - EVAPORATIVE FI TRANSMISSION OF HYPERSONIC REE	ILM COOLING FOR HEAT	PLANETARY ATMOSPHERE AIAA PAPER 63-450 N63-23185 24-1
APPLICATION OF RESIN-IMPREGNAT	TED POROUS CERANICS	VEHICLES FOR CIRCULAR AND HYPERBOLIC ENTRY BY MANNED SPACECRAFT N63-23223 24-6
TO REENTRY VEHICLE HEAT SHIELD	N63-16053 13-19	HYPERVELOCITY REENTRY CONFIGURATIONS - DECELERATOR ALDS N63-23316 24-6
STRUCTURES FOR MANNED ENTRY VE		FORTRAN PROGRAM TO COMPUTE ANGLE-OF-ATTACK HISTON OF REENTRY VEHICLE SUBJECTED TO EXTERNAL CONTROL
OPTIMIZATION OF LIFTING REENTR ASD-TDR-62-1102	N63-16117 13-02	MOMENT R-71 N63-23424 24-0
THERMOCOUPLE MATERIALS FOR TEM TO 4500 DEG F ON REENTRY VEHIC ASD-TDR-63-233	PERATURE HEASUREHENT CLE SURFACES N63-16400 14-30	INDUCTION ELECTRON ACCELERATOR WITH SUPERCONDUCTO N63-23801 24-2
REENTRY STABILITY AND TRAJECTO	ALTRACTOR BUILDING	REFERENCE SYSTEM SA IMERTIAL REFERENCE SYSTEM
CONICAL VEHICLE CA-4291-0065	N63-16937 14-29	EFFECT OF FIELD OF VIEW AND ORIENTATION ON TIME REQUIRED FOR STAR FIELD IDENTIFICATION - PATTER RECOGNITION N63-14445 10-2
EFFECT OF STATIC STABILITY, PI TRIM ANGLE ON HYPOTHETICAL NOS		ACCURACY OF MANUAL OPTICAL THEODOLITE SIGHTING OF
VEHICLE CARDE-TN-1559/63	N63-17179 15-30	THE CENTER OF A PLANETARY DISK N63-14446 10-2
FLIGHT TEST CRITERIA FOR REENT AUXILIARY POWER SYSTEM	TRY OF NUCLEAR	SPACE REFERENCE SYSTEMS - NAVIGATION AND GUIDANCE ACIC-TR-98 N63-14856 11-2
SID-63-39 RECOVERY CONTROL CENTER CONCEP	N63-17497 16-06	TERRESTRIAL AND CELESTIAL REFERENCE SYSTEMS
OPERATIONAL SUPPORT SYSTEMS FO		REFINING SOCIAL SOCIAL PROPERTY OF THE SOCIAL
GROUND CONTROLLED APPROACH - C	OMMUNICATION SYSTEM- N63-17969 16-30	SA ELECTROREFIHING CF GLEANING CF PURIFICATION WATER A STATE OF THE PURIFICATION OF
TERMINAL GUIDANCE FOR REENTRY DEVICES AND GROUND SUPPORT	VEHICLES - RECOVERY	ZONE-REFINING OF POTASSIUM CHLORIDES N63-12057 05-1
REENTRY GUIDANCE FROM GROUND O	D VIGAZUAR GUNIZERS	FUSED-SALT ELECTROLYTES FOR REFINING TUNGSTEN - IMPURITY REMOVAL BM-RI-6154 N63-12375 06-1
LIFT-DRAG MODULATION TO MINIMI HEATING OF REENTRY VEHICLES	IZE AERODYNAMIC	ZONE REFINING OF CEMENTED TUNGSTEN-BASE ALLOYS - PLASTIC DEFORMATION THEORY
WIND TUNNEL INVESTIGATION OF S	STATIC AERODYNAMIC	WAL-TR-372/32-3-1172008-33029A3 N63-12376 06-1
CHARACTERISTICS OF SCALE MODEL NASA-TH-X-233	OF REENTRY CAPSULE N63-17992 16-30	FLOW AND FRACTURE OF ZONE REFINED TUNGSTEN - DEFORMATION MODES OF TUNGSTEN SINGLE CRYSTALS - INDUCTION-TYPE ZONE-MELTER APPARATUS
COOLING SYSTEM FOR SUPERORBITA	N63-18248 17-30	Q-81973-1 M63-13054 07-1 FLOW AND FRACTURE OF INDUCTION ZONE-REFINED
3140283902 36 4017x31723	THE STREET STATE	PLUM AND PRACTURE OF INDUCTION ZONE-REFINED 3114

7-17 RY 7-19 9-30 1-30 0NS -26

-30

-13 -02 -02 RY

02 OR 23

22

,

TUNGSTEN 0-81973-2	N63-13529 08-17	REFLECTION SPECTRUM OF CUBIC ZINC SULFIDE IN THE INTERBAND TRANSITION REGION 4000-400A - PHOTON- ELECTRON INTERACTIONS 163-15288 12-23
PLASTIC DEFORMATION OF CEMENTED SWEEPING OF CEMENTED TUNGSTEN AL ARF-2182-24		LIGHT TRANSMISSION AND REFLECTION CONSIDERATION FOR AIR TRAFFIC CONTROL TOWER CAB DESIGN N63-15396 12-10
HIGH PURITY SAMARIUM, EUROPIUM A REFIMING AFCRL-63-36	FROM CHERICAL	DYNAMICS OF WAVE PROPAGATION IN PLASMA - REFLECTION OF ELECTROMAGNETIC MAYES FROM DIELECTRIC WITH VARIANT PLANE LAYER
HIGH PURITY BERYLLIUM - ZONE REF CRYSTAL STUDIES, POLYCRYSTALLINE TRANSHISSION MICROSCOPY AND SELF Q-B1933-5	STUDIES, ELECTRON	AFCRL-63-82 M63-15685 12-24 ANALYSIS OF ROCKS AND MINERALS BY REFLECTED 11FRARED RADIATION M63-16189 13-25
ZONE REFINED BERYLLIUM RECRYSTAL FROM REDUCED BERYLLIUM AND TESTE PROPERTIES	D FOR TENSILE	REFLECTION AND TRANSMISSION COEFFICIENTS FOR PLASMA LAYER N-46 N63-16790 16-24
HIGH PURITY REFINING OF SILICON TRICHLOROSILANE BY RECTIFICATION JPRS-20944	METHOD N63-20902 21-07	INTENSITY OF MOLECULAR BAND INFRARED RADIATION OF HIGH TEMPERATURE GASES USING REFLECTED SMOCK WAVES - CARBON DIOXIDE GOA63-0240 N63-17457 15-11
REFLECTION SA IGNOSPHERIC REFLECTION REFLECTION AND REFRACTION OF HYD	ROMAGNETIC WAVES	INTERACTION OF REFLECTED SHOCK WAVE AND LAMINAR BOUNDARY LAYER IN SHOCK TUBE ARL/A-204 N63-17575 16-11
MULTISLAB CONCEPT APPLIED TO RAD IONOSPHERE AND 17S LIMIT TO CONT POLARIZATION AND REFLECTION EQUA AFCRL-62-1079	DIO PROPAGATION IN INUOUS IONOSPHERE, ITIONS N63-10937 02-12	PIEZOCERANIC PRESSURE TRANSDUCERS FOR SHOCK TUBE PRESSURE MEASUREMENT - SHOCK MAYE PROFILES OF REFLECTED WAVES, THICKNESS AND CURVATURE NASA-CR-50495 25 25 25 25 26 26 27 27 27 27 27 27 27 27 27 27 27 27 27
ALBEDO OF ARCTIC SURFACES AFCRL-62-1069	N63-10942 02-21	ATMOSPHERIC RADIATION - INFRARED REFLECTANCE OF MIGH ALTITUDE CLOUDS N63-18479 17-21
TRANSEQUATORIAL PROPAGATION ANAL TRACING AND HODE AFCRL-62-347	NATHE VIT CHOKES	STRUCTURE OF DETONATION MAYES IN HYDROGEN-DXYGEN- ARGON MIXTURES - OPTICAL REFLECTIVITY STUDIES N63-18547 17-26
ABSORPTION AND REFLECTION OF LIT SELENIUM IN EXTREME VACUUM ULTRA X-RAY REGIONS	THIUM FLUORIDE AND AVIOLET AND/OR SOFT	REFLECTION OF IMPULSIVE SPHERICAL WAVE AT PLANE INTERFACE BETWEEN TWO LIQUID ELASTIC MEDIA - SEISMIC WAVES 17-12
EARTH-REFLECTED SOLAR RADIATION SATELLITES IN ELLIPTICAL ORBIT	ON SPHERICAL	DIRECTIONAL EMISSIVITY AND REFLECTIVETY OF RADIANT ENERGY FROM SPECULAR, GRAY, ISOTHERMAL GROOVES MASA-TN-D-1874 N63-19179 18-11
TUNNEL DIODE REFLECTION AMPLIFIE ARRAY OF BROADBAND COAXIAL DIPOL	ERS FOR ANTENNA	ULTRAVIOLET RADIATION REFLECTIVITIES OF MARS AND JUPITER 19-03
RADC-TOR-63-4 DYNAMIC NONLINEAR WAVE PROPAGATI MEDIA - ELECTROMAGNETIC WAVE REF	N63-13147 07-09 ION IN IONIZED FLECTION	INFRARED HORIZON OF PLANET EARTH - DIFFERENCE BETWEEN SURFACE, ATMOSPHERIC, & OUTER SPACE SPECTRAL REGIONS - CHOOSING SPACECAAFT SENSORS NASA-TN-D-1850 N63-20603 20-12
AFGRL-62-969 STUDY OF REFLECTION LAWS OF A VA MITH APPLICATION OF THEIR PROPER	ARIETY OF SURFACES	ELECTROMAGNETIC NONLINEAR INTERACTION AND REFLECTION FROM AN ISOTROPIC, IONIZED MEDIUM AFCRL-63-637 (20-08)
SURFACE CRSR-139	N63-14087 09-29	ULTRAHIGH FREQUENCY CONTINUOUS WAVE REFLECTION MEASURING SYSTEM M63-21264 21-00
ELECTROMAGNETIC MAVE INTERACTION FROM PLANE IONIZED MEDIUM - ELEC OSCILLATION AFCRL-63-291	TRON DENSITY N63-14300 10-08	DIFFUSE REFLECTION AND TRANSMISSION OF LIGHT BY TWO ISOTROPIC MEDIA SEPARATED BY ROUGH SURFACE N63-23335 24-12
REFLECTED REACTOR KINETICS - TRADERIVATION MAA-SR-7263	N63-14342 10-23	BROAD-BAND MICROWAVE SPECTROMETER - PERFORMANCE & USE IN MEASURING ATTENUATION, REFLECTION, AND PRESSURE BROADENING OF MOLECULAR TRANSITIONS
NOMUNIFORM NON-LOSSY OR LOSSY TO OR LAYERS, USED AS BROADBAND MAT DEVICES RADC-TOR-63-123	RANSHISSION LINES TCHING OR ABSORBING N63-14494 10-08	ATTITUDE DETERMINATION FROM SPECULAR & DIFFUSE REFLECTION BY CYLINDRICAL SATELLITES NASA-CR-52254 WAY 101 144 145 146 146 146 146 146 146 146 146 146 146
MATCHING AND ABSORBING MATERIALS RADIATION - STRATIFICATION AND R RADC-TDR-69-141	S FOR MICRONAVE	REPLECTION COEFFICIENT REFLECTION COEFFICIENT OF FERRITE LAYERS SMANTED WITH A GRAPHITE FOIL
ELECTRON COLLISION PROPORTIONAL WAVE REFLECTION & TRANSMISSION MBS-TN-164	TO ENERGY IN RADIO N63-14864 11-24	TRANSMISSION AND REFLECTION OF ELECTRONS BY ALUMINUM FOIL - COEFFICIENTS ALUMINUM FOIL - COEFFICIENTS Nos-19566 42-11
MICROWAVE REFLECTION BY MONUNIFO	DRM PLASMA WITH DN 163-15026 11-24	NUMERICAL COMPUTATION OF TRANSMISSION & REFLECTION COEFFICIENTS OF INHONOGENEOUS PLASMA LAYER - APPLICATION TO TELEMETRY PROBLEM IN REENTRY

BORON CARBIDES SECTION OF THE SILICON-BORON-CARBO SYSTEM JPRS-16409 REFLECTION AND REFRACTION OF HYDROMAGNETIC MAYES N63-10689 02-24 SEISMOLOGICAL MEASUREMENTS OF REFRACTION ARRIVALS FROM CHEMICAL EXPLOSIONS IN ALBERTA, CANADA AFCRL-62-1121 N63-12789 06-12
REFLECTION AND REFRACTION OF HYDROMAGNETIC MAYES N63-10689 02-24 SEISHOLOGICAL MEASUREMENTS OF REFRACTION ARRIVALS FROM CHEMICAL EXPLOSIONS IN ALBERTA, CANADA
FROM CHEMICAL EXPLOSIONS IN ALBERTA, CANADA
ANALYTIC SOLUTION FOR ATMOSPHERIC DENSITY FROM SATELLITE OBSERVATIONS OF STELLAR REFRACTION N63-13091 07-1
ATMOSPHERIC SOUNDING BY SATELLITE MEASUREMENTS OF STELLAR REFRACTION N63-13280 07-2
REFRACTION CORRECTION OF SHORT NAVIGATIONAL DISTANCES BY MEASURING ANGLE-OF-ARRIVAL
RAC-1155 44 H 1007/3/2 50 24 DI N63-13746 0 08-1
REFRACTION CORRECTION OF SHORT NAVIGATIONAL DISTANCES BY MEASURING ATTENUATION
RAC-1163 N63-13747 00-1
DIRECT MEASUREMENT OF INDEX OF REFRACTION - FREQUENCY MEASUREMENTS, TELEMETRY RAC-1168
RAC-1168 N63-13748 08-1 THEORY OF DOPPLER SHIFT, ABERRATION AND LIGHT DRA
DEVELOPED FOR METEROGENEOUS REFRACTIVE MEDIA WITH APPLICATION TO EMITTER REFLECTOR RECEIVER SYSTEMS ORA-63-5 N63-14053 09-2
DIFFRACTION BY A REFRACTING WEDGE NRC-297 N63-14477 10-2
ERRORS IN INTERPRETING LUNAR SURFACE TEMPERATURE DATA OBTAINED BY INSTRUMENTS ABOVE EARTH ATMOSPHERE N63-14491. 10-0
MICROSCALE VARIATIONS IN RADIO REFRACTIVE INDEX OF
TURBULENT STRUCTURE WITHIN HEIGHT PROFILE AFCRL-63-71 N63-16242 13-2
EFFECT OF REFRACTION ON SETTING SUN AS SEEN FROM SPACE IN THEORY AND OBSERVATION - MA-6 AND MA-7 MISSIONS
NASA-TN-D-1721 N63-16292 13-1 TRREGIN AR STRUCTURE AND MOTIONS IN TOMOSPHERIC
IRREGULAR STRUCTURE AND MOTIONS IN IOMOSPHERIC F-LAYER - RADIO WAVE REFRACTION METHOD AFCRL-83-198 N63-19477 19-1
CALCULATION OF ELECTRON DENSITY PROFILES - DATA CONVERSION OF TOPSIDE RADIO WAVE REFRACTION RECORDS FROM GROUND-BASEO IONOSONDES M63-21004 21-12
FRACTIVE INDEX RADIO REFRACTIVE INDEX, SURVEY OF METHODS -
RADIOSONDES, REFRACTOMETERS & TEMPERATURE, PRESSURE & AIR DENSITY
MBS-TN-99 N63-11623 04-1 MIE SCATTERING FUNCTION FOR SPHERICAL PARTICLES
APPLIED TO THE CONTINUUM OF COMETS - REFRACTIVE INDEX, INTENSITY, AND POLARIZATION AFCRL-63-233 N63-13684 08-2
INFRARED AEROSOL SCATTERING - ANGULAR SCATTERING
DIAGRAMS FOR REFRACTIVE INDEX 1.5 RAD-TR-63-9 N63-15439 12-2
TRANSHISSION OF OPTICAL MATERIALS AS AFFECTED BY MEDGE ANGLE AND REFRACTIVE INDEX IN 2 TO 15 MICRO RANGE
NAVMEPS-8086 N63-16101 13-2
STRUCTURE ANALYSIS OF LIQUID BY X-RAY DIFFRACTION AND REFRACTIVE INDEX STUDIES NA-14089 14-2
MS-10039-M - 10 14-2
PHOTOELASTICITY - PLANE & CIRCULAR POLARISCOPES -

CARRON 02-07 VES 02-24 VALS 06-12 . 07-12 S OF 07-21

10-12

0-12

9-12

DRAG ITH EMS 9-20

-20 E -05 0 -21 . -12

12

5

3

MEASURING REFRACTION INDEX OF METALS IN EXTREME ULTRAVIOLET SPECTRAL REGION MASA-CR-50265 N63-18496 17-23	DIES FOR EXTRUSION OF COMPLEX SMAPES OF STEEL AND REFRACTORY ALLOYS ASD-TDR-7-946/111/ N63-20414 20-17
TRANSITION RADIATION FOR CHARGED PARTICLE AT OBLIQUE INCIDENCE TO THIN CONDUCTING FILM SEPARATING THO HEDIA OF DIFFERENT REFRACTIVE INDEX AFCAL-63-167 19-23	HIGH TEMPERATURE AND STRENGTH REFRACTORY ALLOY SHEET MATERIAL OF TITAMIUM, NIOBIUM, HOLVBOENUM & ZIRCONIUM HETALS N63-20971 Z1-18
BEAN DEFLECTION TECHNIQUE OF STUDYING REFRACTIVE INDEX OF PLASMA - OPTICAL PROBING OF PLASMA PRODUCED IN SHOCK TUBE	ENVIRONMENTAL EXPOSURE EFFECT ON COATED REFRACTORY ALLOYS AND UNCOATED SUPERALLOYS WITH FOIL GAUGE EMPHASIS GD/A-63-0817 N63-21859 22-18
AROD-2836-1 N63-22570, 23-24	GD/A-63-0817 M63-21859 22-18 TECHNIQUES FOR APPLICATION OF PROTECTIVE COATINGS
REFRACTORY ALLOY EXTRUSION, FORGING, ROLLING, AND EVALUATION OF REFRACTORY ALLOYS	TO REFRACTORY METAL ALLOYS
REFRACTORY ALLOYS ASD-TDR-62-670 N63-10665 02-17	EXOTHERMIC BRAZING OF REFRACTORY ALLOYS
MOLYBDENUM- & TUNGSTEN-BASE ALLOY SHEET MATERIALS N63-12096 05-18	N63-22786 23-18 ULTRASONIC WELDING OF SELECTED REFRACTORY METALS
PAGDUCTION METHODS, PHYSICAL PROPERTIES, AND	AND ALLOYS 24-18
ELECTRONIC STRUCTURE OF REFRACTORY METALS, THEIR COMPOUNDS AND ALLOYS	REFRACTORY MATERIAL CF CARBIDE
JPRS-17322 N63-12136 05-18	CF CERMEY - JAIRTIAN YMOTDANYSN -MU CHINTH-JON
DEVELOPMENT OF WORKABLE MOLYBDENUM- AND TUNGSTEN- BASE ALLOYS ASD-TDR-62-508 N63-12285 05-18	CF CORUNDUM
MANA SE JA SNES AN THEE JANTAN SERVICES	CF GLASS REFRACTORY MATERIAL BASED ON BORON NITRIDE JPRS-16158 02-19
TEMPROVED VANADIUM-BASE ALLOYS FOR ELEVATED TEMPERATURE USE ASD-TDR-62-667 N63-12286 05-18	JPRS-16158 N63-10622 02-19 MATERIALS THERMAL PROPERTIES AND ENVIRONMENTAL
ASD-TDR-62-667 N63-12286 05-18 ZONE REFINING OF CEMENTED TUNGSTEN-BASE ALLOYS -	THERMAL SIMULATION SUPPORTING FACILITIES FOR MISSILES AND SPACE VEHICLES N63-10913 02-13
PLASTIC DEFORMATION THEORY WAL-TR-372/32-3-T1 N63-12376 06-18	DETERIORATION OF CALCIA-STABILIZED ZIRCONIA,
METALLURGICAL RESEARCH - RARE EARTH, HAFNIUM,	REFRACTORY MATERIALS NASA-TN-D-1595 N63-10986 02-18
THORIUM, AND REFRACTORY ALLOYS - SOLID-STATE DIFFUSION BONDING AND MELTING RESEARCH	CERANICS AND REFRACTORY MATERIALS - DERYLLIUM
USBM-U-1001 N63-14294 10-18	DXIDE AND SILICON MITRIDE JPRS-16807 N63-11207 03-18
MACHINING OF REFRACTORY MATERIAL - TUNGSTEN, MOLYBDENUM, NIOBIUM, PYROCERAM AND ALLOYS ASD-TR-7-532A/VI/ N63-14883 11-18	PRODUCTION OF HIGH-STRENGTH ALUMINUM DXIDE FIBER WAL-TR-371/50 03-18
REFRACTORY METAL ALLOYS OF PYROLYTIC GRAPHITE FOR SOLID PROPELLANT ROCKET ENGINE COATING	FORMATION OF ALUMINA WHISKERS WAS-11232 03-18
WAL-TR-766.41/3 N63-15352 12-27 RARE EARTH, HAFNIUM, THORIUM REFRACTORY ALLOYS AND	ELECTRIC PROPULSION POMERPLANTS FOR SPACECRAFT ARS PAPER-2652-62 M63-11265 03-27
MELTING RESEARCH CONSIDERATIONS - PROGRESS REPORT USBN-U-1031 N63-15730 12-18	PYROLYTIC GRAPHITE WHISKERS N63-11293 03-19
KINETICS OF OXIDATION OF REFRACTORY METALS AND ALLOYS BETWEEN 1000 AND 2000-DEG C - METAL CARBIDES, COPPER, MOLYBDENUM SILICIDES	PHYSICAL AND CHEMICAL PRINCIPLES AFFECTING REFRACTORY MATERIALS FOR ROCKET MOZZLES N63-11417 03-18
ASD-TDR-62-203, PY. 11 N63-15880 13-18	PYROLYTIC REFRACTORY MATERIALS FOR SOLID-FUEL
MECHANICAL AND THERMODYNAMIC PROPERTIES OF REFRACTORY ALLOYS OF TRANSITION METALS AND CARBIDE - BIBLIDGRAPHY	ROCKET ENGINE - VAPOR DEPOSITION N63-11441 03-27
UCRL-7284 N63-17569 16-18	BENEFICIATION OF REFRACTORY CLAY BH-RI-6142 N63-11854 04-19
ULTRASONIC WELDING OF REFRACTORY METALS AND ALLOYS	ELECTRON GUNS FOR EVAPORATION OF REFRACTORY OXIDE
STRUCTURAL ANALYSIS OF DEFRACTORY ALLOYS -	FILM ESL-TH-141
CHROMIUM, MOLYBDENUM, AND TUNGSTEN DNIC-182 N63-17587 16-18	REFRACTORY MATERIALS RESEARCH - VAPORIZATION AND EMISSIVITY OF INTERSTITIAL BORIDES AND MITRIDES
ULTRASONIC WELDING OF REFRACTORY METALS AND ALLOYS N63-19291 18-18	M63-12177 05-18
RARE EARTH, HAFNIUM, THURIUM, & REFRACTORY HIGH- TEMPERATURE ALLOYS. SOLID STATE DIFFUSION BOMDING.	CHENICAL, SOLAR, NUCLEAR EMERGY - THERMOELECTRIC & THERMIONIC DEVICES - METALLURGY, REFRACTORY, POLYMERIC & COMPOSITE MATERIALS - ABSTRACTS
AND MELTING PROCESSES USBM-U-1057 M63-19613 19-18	TOR-930/2701-01/TN-1, VOL. II N63-12222 05-27
DISLOCATION INTERSTITIAL BINDING ENERGIES, STRAIN AGING OF TANTALUM-DXYGEN ALLOY AND FLOW STRESS STUDIES TO DETERMINE YIELD IN REFRACTORY METALS	REFRACTORY MATERIALS FOR ADVANCED ROCKET ENGINE COMPONENTS R-3350-3 N63-12944 07-18
Company of the control of the contro	PAGRICATION OF TITANIUM DISORIDE - TITANIUM NITRIDE - BORGN NITRIDE ROCKET NOZZLE INSERTS
FPR-007 N63-20281 20-18	TR-371-9/4 R63-13138 07-17

REDUC

REFRANCE SIDE TON-1
MACHITANTA
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	INTERFEROMETRIC MEASUREMENT OF TO OF OXIDES OF YTTRIUM, CERIUM, SAEUROPIUM, AND DYSPROSIUM BM-RI-6180	MARTIN	NSION 07-23	CHEMICAL REACTIONS BETWEEN SOLID AND NOZZLE MATERIALS OF GRAPHITE METAL CARBIDES	PROPELLANT AND REFRACT N63-19792	TORY
	REFRACTORY GLASS MELTING FURNACE AND FABRICS	A STANLEY WATER IN	D)w	STRENGTH OF ALUMINUM OXIDE AND M A FUNCTION OF GRAIN SIZE AND TEM REFRACTORY MATERIAL	PERATURE -	IDE AS
	FURNACE FOR MELTING REFRACTORY G	LASS. CARDI	NG OF	RAD-TR-63-32	N63-19966	19-19
	BRITTLE CERAMIC FIBERS, AND REFR	N63-13288	07-17	MICROBALANCE TECHNIQUE FOR VAPOR ANALYSIS OF REFRACTORY SUBSTANCE OF ION PUMPING SYSTEM		IPTION
	DEVELOPMENT OF REFRACTORY FABRIC FURNACES, CARDING OF BRITTLE CER		O7-17	HIGH TEMPERATURE REFRACTORY MATE STRESS RUPTURE AND IRRADIATION D	RIAL PROGRAM	N -
	THERMAL PROPERTIES OF TWENTY-SIX			MOLYBDENUM, AND TANTALUM GEMP-25A	N63-20138	20-15
	TO 5000-DEG F OR THEIR DESTRUCTI REFRACTORY MATERIALS ASD-TDR-62-765	N63-13773	08-18	REFRACTORY COMPOSITES - METAL CO RESISTANCE, AND PLASMA SPRAYING	19 Tablesome	DIA NA
	THIN FILM ACTIVATOR-REFRACTORY S		STEMS	DMIC-184	N63-20994	21-19
	FOR HIGH DENSITY EMISSION CATHOD THERMIONIC SURFACES	E TUBES -		PYROLYTIC REFRACTORY LIQUID PROP CHAMBER DEVELOPMENT	ELLANT THRUS	ST
	AFCRL-63-69	N63-14835	11-18	NASA-CR-51521	N63-22159	22-27
	MACHINING OF REFRACTORY MATERIAL MOLYBDENUM, NIOBIUM, PYROCERAM A ASD-TR-7-532A/VI/		11-10	REFRACTORY GLASS FABRICS - TESTI NASA-CR-51750	NG AND PRODU N63-23006	UCTION 24-19
	MACHINING OF REFRACTORY MATERIAL NIOBIUM AND ALLOYS, RESIN, ZIRCO	, TUNGSTEN, NIUM OXIDE	5,2	FABRICATION OF SPACE ERECTABLE S SUPERALLOYS, REFRACTORY MATERIAL NONMETALLIC MATERIALS		T BEAR
	ZIRCONIUM AND ALUMINUM OXIDE COA ASD-TR-7-532A/VII/	TINGS N63-14884	11-18	DEFLUGRINATION OF REFRACTORY FLU	ORIDE-BEARIN	16
	MACHINING OF REFRACTORY MATERIAL	S. HIGH		COMPOUNDS BY CONTROL METHOD BM-RI-6314	N63-23613	24-07
	TEMPERATURE ALLOYS, HIGH STRENGT		0	REFRACTORY METAL		100
	ASD-TR-7-532A/1X/	N63-14886	11-18	OXIDATION PROTECTION OF REFRACTO		
	HYPERFINE STRUCTURE OF ERBIUM-16	9 AND RADIO	ACTIVE	AEROSPACE APPLICATIONS	N63-10385	01-13
	ISOTOPES OF REFRACTORY ELEMENTS UCRL-10609	N63-15487	12-23	DIFFUSION BONDING OF REFRACTORY RDR-1322-1	METALS N63-10792	02-18
	DEVELOPMENT OF PYROLYTIC REFRACTI SOLID-FUELED ROCKET ENGINES WAL-TR-766.41/2-2	DRY MATERIAL N63-15667	S FOR	PROTECTIVE COATINGS FOR REFRACTO	N63-10966	02-18
	REFRACTORY MATERIALS STUDY - BOR MATRIX ISOLATION OF VAPORS OVER	IDE EFFUSION	t,	QUARTZ LAMP RADIANT HEAT BRAZING METAL HONEYCOMB SANDWICH CONSTRU IR-7-937A/1/		ORY 03-17
	RESONANCE LINE ADSORPTION, AND G	N63-15728	12-23	VAPORIZATION, SURFACE TENSION, A	ND VISCOSITY	
	HICROSTRUCTURE OF POLYCRYSTALLIN OXIDES - ALUMINUM AND MAGNESIUM	OXIDES		STUDIES OF REFRACTORY METALS WADD-TR-60-463, PT. 11	N63-11227	03-18
	RAO-SR-63-29	N63-16177	13-18	ELECTRON-BEAM WELDING WAL-401.54/2-2	N63-11442	03-17
	CARBONIZATION OF PLASTICS, VAPOR SPECTRAL EMITTANCE OF REFRACTORY		4D	THERMAL RADIATIVE PROPERTIES OF	SELECTED MAT	TERIALS
	WADD-TR-60-646, PT. 11	N63-17431	15-07	INCLUDING TITANIUM ALLOYS, STAIN SUPERALLOYS, REFRACTORY METALS,	AND COATINGS	21-12
	PYROLYTIC GRAPHITE AND RELATED RE	EFRACTORY	238	DMIC-177, VOL. 1	N63-11915	04-13
	MATERIALS - BIBLIOGRAPHY 58-62-27	N63-17636	16-19	DIE FORGING WITH COUNTERPRESSURE	- FABRICAT	ION OF
	THERMAL PROPERTIES OF REFRACTORY CONDUCTION	MATERIALS - N63-17740	HEAT 16-18	REFRACTORY METALS AID-S-63-3	N63-11930	04-17
30	EMISSION SPECTRUM MEASUREMENTS OF	FREFRACTORY	31	PRODUCTION METHODS, PHYSICAL PRO ELECTRONIC STRUCTURE OF REFRACTO		0
	COATING MATERIALS NASA-CR-50487	N63-18320	17-17	THEIR COMPOUNDS AND ALLOYS JPRS-17322	N63-12136	05-18
	THERMAL. MECHANICAL AND PHYSICAL	VAR MARKSON		TARLEAN TONS TURNS TONS TARESTON	TOTAL PROPERTY	1/00/5
111-	PYROLITICALLY DERIVED REFRACTORY NASA-CR-50404		18-18	COMPATIBILITY OF MOLTEN URANIUM REFRACTORY METALS NASA-TN-0-1442	M63-12193	
2 3	STRUCTURAL MATERIALS FOR MAGNETON	HYDRODYNAMIC	645 TK	HIGH TEMPERATURE IRRADIATION TES	T OF URANIUM	1.1Y
	GENERATORS - REFRACTORY CONDUCTOR PWA-2125	DE AND THEIR	ATORS	DIOVIDE CERMET EUELS	N63-12687	Q6-26
584	THERMODYNAMIC AND KINETIC DATA FO			AEROSPACE MATERIALS - REFRACTORY		ATTNES.
	CHEMICAL PROPERTIES OF THE REFRAG	CTORY MATERI		FOAMS, WHISKERS, COMPOSITES, AND TDR-930/2411/TN-1	PLASTICS	07-18
AL	CNU-TENESTERAN	W.L-75.8382-01	136-13	TENSILE PROPERTIES AND SHEET-BEN	DING FATIGUE	E
-91	HIGH-TEMPERATURE PHYSICAL AND CHI REFRACTORY CARBIDES AND BORIDES I			PROPERTIES OF REFRACTORY METALS NASA-TN-D-1592	TAR MANY NAME	07-18
1.6		ALL PROPERTY IN	100	THERMORPHANCE OF REPRACTORY HER		1945-33

THERMODYNAMICS OF REFRACTORY METAL CARBIDES,

SES Y 9-26 AS 2-19

-15

N. -18

-19

-27

-33

-07

-13 -10 18

17

17

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9

6 .

.

WELDING OF REFRACTORY METALS

MRIDES AND NITRIDES FOR USE IN	NOZZLES -	e) -Tehys Pus	AG-AEA-ASPEC-EAR	N63-19632	19-10
ENGLISHED THE PARTY OF THE PART	M63-13549	08-15	COMPATIBILITY OF CESIUM VAPOR NII	TH SELECTED	TEST
DINING OF REFRACTORY METALS, THE	JNGSTEN USIN	Grigition	MATERIALS - REFRACTORY METAL, PRI LIGHT METAL & MONMETAL AT HIGH TO NASA-TM-D-1739	MPERATURES N63-19650	19-07
ML-TR-460.54/1-2	N63-13980	09-17	ELECTRON MICROSCOPY, X-RAY DIFFR	DESCRIPTION SHE	SCHOOL STREET
REFRACTORY METAL PROTECTIVE SYST WLYBDENUM, NIOBIUM, TUNGSTEN, 1 1111.10GRAPHY	TEMS RESEARC	Mor tal	MECHANICAL TESTING TO DETERMINE : MECHANICAL PROPERTIES OF REFRACTI ASD-TR-61-181, PT. III	SUBSTRUCTURE	\$203 WANTE 11
108-169/3240-31/TR-2	N63-14236	10-18	STIMUSCONENT OF BICKEL-COORS	TIM ALLOYS	19-10
MICHINING OF REFRACTORY METALS -	TUNGSTEN,	IYS AND	EFFECTS OF PRIMARY GRAIN STRUCTUR SUBSTRUCTURE ON DUCTILE-BRITTLE T BEHAVIOR OF REFRACTORY METALS	MOITISMAGT	VARIABLE AZ
HEEL NO-TR-7-532A/V/	N63-14882	11-18	AU-10 DEEDS-ESS SEFECT	CA-FARC-WICH	A # 224
NTCH SENSITIVITY OF TANTALUM, P MERACTORY METALS — IMPACT PROPE MUGHNESS, CRACK PROPAGATION	ERTIES, FRAC	TURE	SUBSTRUCTURE AND MECHANICAL PROPI CENTERED CUBIC REFRACTORY METALS ELECTRON MICROSCOPY OF TUNGSTEN I	STUDIED BY	Napola et no
WICH SENSITIVITY OF REFRACTORY UNGSTEN, TANTALUM, MOLYBDENUM, ITANIUM ALLOYS	METALS - NI AND MOLYBDE	OBIUM.	STATE-OF-THE-ART OF REFRACTORY M	ETAL WELDING	19-17
SD-TDR-62-1004 TO THE BEST MINES	N63-15689	12-18	OXIDATION-RESISTANT COATINGS FOR	REFRACTORY	METALS
HAY DIFFRACTION STUDY OF DEFOR	MATION BY F	ILING	LITHIUM-BOILING POTASSIUM REFRAC		DOMESTIC:
HAR DE THE APPROPRIES OF MET	N63-15749		FACILITY NASA-CR-51236	TO SO SHIP VALUE	RESOUT
INETICS OF OXIDATION OF REFRACT	C - METAL	AND MOST 25	CORROSION MECHANISMS IN REFRACTO	RY HETAL-ALE	KALI
ARBIDES, COPPER, MOLYBDENUM SIL 50-TDR-62-203, PT. II	N63-15880	13-10	METAL SYSTEMS TO A COMMISSION OF THE ORNE-3424	N63-21380	22-18
LTRASONIC WELDING OF REFRACTORY			VACUUM CLADDING OF REFRACTORY ME	TALS N63-22109	22-18
ELATIONSHIP OF TWINNING TO BRIT EFRACTORY METALS, SINGLE AND PO OLYBDENUM AND NIOBIUM			COATING PROCESSES TO DEVELOP OXI COATINGS FOR REFRACTORY METALS DMIC-MEMO-172		The second second
50-TOR-63-360	N63-16904	. 14-18	NOTCH SENSITIVITY OF REFRACTORY	DESCRIPTION OF THE PARTY	DID ALL
EVELOPMENT OF ASPHALT LUBRICANT F REFRACTORY NETALS	JATHREEAMNY	SAD MYNM FILE	MAYE PONETTON DESTRUCTION NORTH HATE	N63-23165	24-18
F77291 - SESSOTEKSS BRUTSHACH BALLUNG BOOKSTEEN WESTERN		15-07	ULTRASONIC WELDING OF SELECTED RI	N63-23470	24-18
LTRASONIC WELDING OF REFRACTORY	N63-17581	16-18	ALUMINUM OXIDE WHISKER REINFORCE METALS - EFFECT OF OXIDE BOND &	WETTING TOOK	BARKSAL :-
NTERACTION OF IMPURITY ATOMS AN EFRACTORY METALS - MOLYBDENUM S TRAIN AGING AND TENSILE CREEP SD-TOR-63-238	INGLE CRYST		STRAIN SOFTENING TO IMPROVE THE REFRACTORY METALS		
POR DEPOSITION OF REFRACTORY P	E-VIII 4 800-389	manners.	WELD PARAMETERS - SPEED, AMPERAG		
MAPHITE BY PYROLYSIS OF ALKOXIC		STARKEN XI	CONFIGURATION FOR REFRACTORY MET	AL WELDING	24-18
PROSION RATES OF REFRACTORY ME DUTEN LITHIUM, SODIUM, POTASSIU QUID METAL COOLANT FOR ROCKET	JH AND HAGNE		COATED AND BARE REFRACTORY & SUP MECHANICAL AND THERMOPHYSICAL PR	OPERTIES .	inel annae
SHEET SHEET SHEET STATES STATES		17-02	\$10-62-1219-3	NA 3 17 9 0	dy JADU4-2
STERNETALLIC PROTECTIVE COATING	TRY VEHICLE	UH AND	REFRIGERANT CF COOLANT HYDROGEN, HELIUM, DEUTERIUM, AND	NEON AS	AEREONICO S D REG
IVIRONHENT - REFRACTORY METAL OF ASA-CR-50540		17-17	REFRIGERANTS IN A NEON LIQUEFIER	N63-14899	
LOYS AND DIFFUSION COUPLES OF ITH GROUP V AND VI REFRACTORY E OLUTIONS	LEMENTS - S	CANDIUM SOLID	COMBINED USE OF LIQUID AND GASED REFRIGERANT TO PROVIDE SIMULATED ENVIRONMENT	US HELIUM AS SPACE N63-19618	NA 304 2 MA 72 4 22 19-29
0-TDR-63-204	N63-18627	17-18	REFRIGERATING EQUIPMENT	1000	029227037
TCH SENSITIVITY OF REFRACTORY	METALS N63-18994	10-10	LARGE CAPACITY REFRIGERATION SYS 20-DEG K LOADS USING HELIUM AND AEDC-TOR-63-71		OGEN
TRASONIC MELDING OF REFRACTORY	METALS AND N63-19291			- GENERATO	RS. 230
EATIONSHIP OF TWINNING TO BRIT FRACTORY METALS - POLYCRYSTALL MINIUM ALLOY, NIOBIUM	N63-19376	NUH- 18-18	REACTORS, AND SOLAR PAHELS NRL-MEMO-1361, PT. 2	H63-14441	10-23
LDING OF REFRACTORY METALS	N63-19496	19-18	CE COOLING SYSTEM	ATATI BUSH M	(S1)(S885.43
LL FORMING OF REFRACTORY METAL RENGTH - MOLYBDENUM TITANIUM A			FOOD REFRIGERATION AND HABITABLE CONTROL SYSTEM FOR SPACE VEHICLE PHASE, AND FABRICATION	S - DESIGN.	TEST
			Andrew Committee on Minutes Of SE	Aug 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	

AHRL-TOR-62-149	N63-16422	14-06	PHYSIOLOGY - THERMAL STRESS IN HUMAN BODY, SWEATING	100
CRYOGENIC ENERGY STORAGE SYSTEM SUPERCONDUCTING INDUCTOR			AMRL-TDR-62-131 N63-11922	04-14
SUPERCONDUCTING INDUCTOR ** REFRINGENCE S BIREFRINGENCE	19071-0-3		SIGNIFICANCE OF ADRENAL GLANDS TO HEAT RESISTANCE OF AN ORGANISM JPRS-17250 N63-12015	STAIN S
			*	- 15/15
S AIR TO AIR REFUELING			JET ENGINE COMBUSTOR DURABILITY - FEASIBILI REDUCING LINER TEMPERATURE BY SELECTING LON RADIATION JET FUELS N63-16337	FLAME
REGENERATION SA BIOREGENERATION	ANYNTHA MORE		BODY TEMPERATURE - SHIVERING & HEAT REGULAT	710M -
SA BIOREGENERATION ELECTRICALLY-REGENERATIVE HYDROG	GEN-OXYGEN FI	UEL	PHYSIOLOGY AAL-TDR-62-12 N63-21397	22-14
CELL .	N63-10270	01-06	REGULATOR	
REGENERABLE CARBON DIOXIDE SORPT		04-16	SA FLOW REGULATOR SA ROBERTSHAW-FULTON REGULATOR CF GOVERNOR	H200
			MODE OF OPERATION OF A FLIGHT REGULATOR WIT	TH 330
RADIOCHEMICAL REGENERATION OF FU	CELLS	09-06	REGARD TO THE NONLINEAR CONDUCT OF THE REGUNDTON MOGL PAPER-37 N63-10033	1475
	N63-14136	. 13. 27	(1.240012)	11119392
REGENERATIVE HYDROGEN PEROXIDE F SOLAR CELLS FOR BOTH PRIMARY AND POWER			STABLE, TRANSISTORIZED LOW VOLTAGE REGULATO DOFL-R940-62-2 N63-11675	O4-01
INORGANIC SUPEROXIDES - HISTORY,	13536 (2.128)		THEORY OF ANALYTICAL DESIGN OF REGULATORS JPRS-14623 N63-11698	A
STRUCTURE - AIR REGENERATIVE PRO	PERTIES	2-1719	CONTRACTOR OF THE PROPERTY OF	04-20
NASA-CR-50124	N63-16733	14-07	TORQUE REGULATOR FOR TIMING MOVEMENTS TR-1130 N63-17910	
MULTICELL REGENERATIVE HYDROGEN- ASSEMBLIES	OXYGEN FUEL	CELL	VOLTAGE REGULATOR DIODE TESTING SYSTEM -	
NASA-CR-50564	N63-18410	17-09	MEASURING VOLTAGE BREAKDOWN, ENERGY TRANSFE AND TRANSFER TIME	R,
DESIGN, DEVELOPMENT AND TESTING REGENERATIVE HYDROGEN-DXYGEN FUE		6-8X4E	TR-1145 N63-20022	19-01
NASA-CR-50565	N63-18492	17-23	SPACECRAFT POWER SUPPLIES AND VOLTAGE REGUL NASA-CR-51005 N63-21252	
REGENERATION OF CARBOHYDRATES FR IN CLOSED ECOLOGICAL SYSTEM /RES AIAA PAPER-63-143	PIRATORY SYS		DEVICE FOR REGULATING AND STOPPING FUEL FLO FTO-TT-63-850/162 N63-23394	3001308
PICTURE REGENERATION FROM QUANTI CONSTANT INTENSITY CONTOURS	ZED DATA US I N63-22505		REINFORCED MATERIAL REINFORCED HIGH-TEMPERATURE ELASTOMERS - SI RUBBERS No.3-12428	
NUCLEIN METABOLISM IN REGENERATI		AL	APPEARING IN JUSTICE AND MAINTING OF CONTROL TO	THE RESERVE
HUSCLES BY QUANTITATIVE AUTORADI JPRS-20997	N63-22587	23-16	REINFORCEMENT OF NICKEL-CHROMIUM ALLOYS WIT ALUMINA DISKS N63-13535	08-1
EFFECTS OF REGENERATIVE AND RADI		IG ON	RESINS AND REINFORCED LAMINATES AT 600-650	DEG F
THRUSTOR PERFORMANCE FOR FROZEN NASA-TN-0-1738	FLON N63-23676	24-23	AROMATIC AMIDES AND PYROMELLITIMIDES N63-14298	10-11
REGENERATOR ADVANCED HEAT TRANSFER ELEMENTS			IMPACT RESISTANCE TEST OF CONCRETE BEAMS US IMPACT TESTING MACHINE - PLAIN, REINFORCED,	AND
REGENERATOR SYSTEMS CTR.00-272	N63-22832	23-13	PRESTRESSED BEAM RESULTS N63-15214	
REGGE POLES - PARTICLE SCATTERIN			REINFORGED HIGH TEMPERATURE ELASTOMER RESEA N63-15495	
UCRL-10677	N63-16502	14-23	PLAIN AND DEFORMED WIRE FABRIC AS REINFORCE	MENTS
REGION			FOR CONCRETE TEAM-238 N63-16540	14-17
REGION S D REGION S E REGION			REINFORCED METAL COMPOSITES FROM BERYLLIUM	FIRES
S F REGION S FRESMEL REGION			AND ALUMINUM MATRIX MATERIALS IITRI-B241-8 N63-22414	23-11
C BOLAN BECTON			AMERICAN CANADA CANADA IN ALTERNATURE AND AMERICAN AMERICAN AND AMERICAN AMERICAN AND AMERICAN AMERICAN AMERICAN AND AMERICAN	
S STAGNATION REGION			PHOTOELASTIC ANALYSIS OF REINFORCED OPENING CYLINDRICAL, SPHERICAL, AND TORO-SPHERICAL SUBJECTED TO INVERNAL PRESSURE	S IN
PROBABILITY THEORY - POPULATION (HEAN ESTIMAT	TON	N63-23407	24-2
USING RATIO AND REGRESSION IN HUI AROD-2934-7	N63-13344		REINFORCED PLASTIC EFFECT OF SPACE ENVIRONMENT ON REINFORCED P	
REGRESSION EXPERIMENTS FOR EXPAN: DESIGN, AUTOCORRELATION ERROR EX			M63-10925	05-1
PROGRAMMING, DECISION THEORY - RI ARL-63-107	HASTLITY G	ROWTH	EFFECT OF SILANE COUPLING AGENTS ON GLASS REINFORCED PLASTICS N63-12923	
REGULATION			EVALUATION OF REINFORCED PLASTICS FOR PRIMA	RY
CF INSTRUCTION CF AULE		REPRISER	STRUCTURE OF ARMY AIRCRAFT TRECOM-TR-63-15	
PHYSIOLOGICAL HEAT PROBLEMS OF SI	PACE TRAVEL		TESTS OF OPTICALLY FLAT AND AS-CAST E-GLASS	
MOL PAPER-04	M63-10059	01-19	TESTS OF OFTICALLY PLAT AND AS-CAST E-GLASS	1111071

05-14 Y OF FLAME 13-27 NH -

TINE 01-22 04-09

4-28 6-17

9-09 25 1-06

N -19

-18

33

07

17

.

.

ACEL ALEXI - CAM.	ARF-8765-28
REINFORCED PLASTICS FOR UNDERWATER ORDNANCE AND DEEP SUBHERGENCE CONSTRUCTIONS NO.1R-62-206 N63-14407 10-34	CERAMIC FIBERS FOR REINFORCEMENT IN COMPOSITE MATERIALS NASA-CR-50793 N63-19261 18-19
GLASS SURFACE CHEMISTRY FOR GLASS FIBER REINFORCED PLASTICS N63-15100 11-17	BERYLLIUM FIBER STRENGTHENING OF ALUMINUM ALLOYS FOR HIGHER ELASTICITIES AND STRENGTH TO MEIGHT
MONDESTRUCTIVE TESTING OF GLASS FIBER-REINFORCED	RATIOS IITRI-8241-7
HAL-TR-142-5/2-1 N63-15420 12-17	REINFORCEMENT OF NICKEL-CHROMIUM ALLOYS WITH
INVESTIGATION OF REINFORCED PLASTICS - RESIN-GLASS FIBERS - NADO-TR-60-746, PT. II N63-15465 12-18	ABLATIVE PROPERTIES OF MOLDED FIBER REINFORCED PANELS - PRESSURE EFFECT N63-21393 22-19
GOVERNMENT SPECIFICATIONS AND STANDARDS FOR	RELATIVE BIOLOGICAL EFFECTIVENESS /RBE/
REINFORCED PLASTICS PLASTEC NOTE-3 N63-15655 12-19	SPECTRUM AMALYSIS OF MIGH ENERGY PROTON RADIATION, LINEAR ENERGY TRANSFER /LET/ AND RELATIVE BIOLOGICAL EFFECTIVENESS /RBE/
THERMAL DIFFUSIVITY AND ABLATION RATES OF	N63-15136 11-28
REINFORCED PLASTIC LAMINATES N63-15891 13-19	RADIATION HAZARD - RELATIONSHIP OF RELATIVE BIOLOGICAL EFFECTIVENESS /RBE/ AND LINEAR ENERGY
FPDXY RESIN FLEXIBILITY EFFECTS ON FRACTURE OF FIBERGLASS REINFORCED PLASTIC LAMINATE MODELS TEAM-249 N63-19726 19-19	TRANSFER /LET/ 014 AND 15137 11-16 RELATIVISTIC EFFECT
MECHANICAL PROPERTIES OF HETEROGENEOUS MEDIA SUCH AS REINFORCED RUBBERS AND PLASTICS, MULTIPHASE	RELATIVISTIC STUDY OF LLEWELLYN ELECTRONIC GAP AND ITS APPLICATION TO DIGDES AND KLYSTRONS -
ALLOYS, AND CONCRETE N63-19897 19-23	EE-525 13 13 13 13 13 13 13 13 13 13 13 13 13
GLASS SURFACE CHEMISTRY FOR GLASS FIBER REINFORCED PLASTICS - BOND PERMANENCY, STRENGTH, WETTING EFFECTS N63-20121 20-19	RELATIVISTIC MAVE FUNCTION IN CALCULATION OF ELASTIC ELECTRON - DEUTERON SCATTERING NS3-19636 19-09
NOTORS AND PROPELLERS OF GLASS FIBER REINFORCED PLASTICS N63-20129 20-03	CIRCULAR AND RELATIVISTIC GENERALIZATION OF THE BALANCE OF BRILLOUIN ZONES CERN-63-18 N63-22551 23-23
GLASS FIBER REINFORCED PLASTIC STRUCTURAL MATERIAL	FOR THE CONTROL OF THE TO
N63-20163 20-19 GLASS FIBER REINFORCED PLASTICS FOR AIRCRAFT	CF HAMILTON-JACOBI EQUATION SPIN, CHARGE, AND MASS OF BARYONS BY RELATIVISTIC
CONSTRUCTION OF OPTIMUM WEIGHT N63-20164 20-19	WAVE EQUATION
GLASS FIBER REINFORCED PLASTIC STRUCTURAL MATERIAL PROPERTIES 80-19	RELATIVISTIC ANGULAR CORRELATION THEORY OF SUCCESSIVELY DECAYING PARTICLES MYO-10267 N63-19289 18-23
GLASS FIBER REINFORCED PLASTICS - STRENGTH & RIGIDITY FOR STABILITY - CORE TENSILE STRENGTH N63-20166 20-19	IONIZATION BY COLLISION OF RELATIVISTIC PARTICLES AND DENSITY EFFECT IN SOLIDS AND GASES N63-23243 24-01
REINFORCEMENT AXIAL LOAD DIFFUSION INTO THIN-WALLED REINFORCED	PRESSURE DEPENDENCE OF IONIZATION BY RELATIVISTIC ELECTRONS N63-23244 24-23
CYLINDRICAL SHELL ARC-CP-644 M63-22209 23-33	IONIZATION BY RELATIVISTIC PARTICLES IN HELIUM- HYDROGEN GAS MIXTURES WITH QUANTUM RECHANICAL
TOWARDS AN EMPIRICAL CALCULUS OF REINFORCEMENT VALUE VIA SWITCHING SYSTEM USING CARNEAUX PIGEONS	CA EFFECTS 2 100 PATIENTS LEADED to N63-23245 24-23
N63-23593 24-20	STRAGGLING ENERGY LOSS BY HIGH ENERGY RELATIVISTIC ELECTRONS IN SOLIOS N63-29246 24-25
MATERIAL EVALUATION FOR DESIGN OF SEGMENTED SPHERICAL PRESSURE VESSELS AND REINFORCEMENT RINGS N63-21068 21-34	ENERGY DEPENDENCE OF SECONDARY EMISSION MONITOR BY RELATIVISTIC ELECTRON BEAM ANALYSIS N63-23247 24-15
REINFORCING FIBER METAL FIBER REINFORCED SOLDERING TAPE AND BEARINGS	DIRECT, ELECTRON-POSITRON PAIR PRODUCTION BY HIGH
OF LEAD-TIN ALLOYS ARF-8765-25 N63-12801 06-18	ENERGY ELECTRONS USING IONIZATION CHAMBER N63-23248 24-23
NEW AND IMPROVED THERMALLY PROTECTIVE FIBER REINFORCED COMPOSITE MATERIALS N63-14518 10-19	DENSITY EFFECT IN SOLIDS AND ENERGY LOSS BY RELATIVISTIC ELECTRONS - COLLISION AND BREMSSTRAHLUNG RADIATION
THE PARTY OF THE P	RELATIVITY THEORY NEWSTAC HE HOSTAXASES SANOSTRANS
NONDESTRUCTIVE TESTING OF GLASS FIBER-REINFORCEO PLASTIC MISSILE CASES WAL-TR-142-5/2-1 N63-15420 12-17	OF FIELD THEORY NATURE AND INTERDEPENDENCE OF AXIOMS OF
BEHAVIOR OF FIBER GLASS REINFORCED SYNTHETIC	NYO-10258 N63-14215 09-23
LAMINAR PLANE DFL-204 N63-16420 14-19	RELATIVITY THEORY AND VECTOR-SCALER TRANSFORMATION OF KINEMATIC AND DYNAMIC QUANTITIES OF ROCKEYS -
MILD STEEL FIBER REINFORCED LEAD-TIN ALLOYS FOR PRODUCTION OF SOLDERING TAPE AND STRUCTURAL	ASTROPHYSICS NASA-TH-X-50080 17-20
BEARINGS - STATESTAM STIES LINGS 19- TO FASE ME	CLOCK PARADOX IN THEORY OF RELATIVITY - TIME

THE REAL PROPERTY.

BEHAVIOR IN COMPARABLE COORDIN	NATE SYSTEMS N63-21916	22-23	ATOMIC EXCITATION AND RELAXATION TI	ME FOR HEL	15-23
SPACE AGE TECHNOLOGY APPLIED POSSIBILITY OF OBSERVATIONAL	SASIS FOR RESO	LVING	INFRARED EMISSION STUDIES OF VIBRAT RELAXATION IN SIMPLE MOLECULES	10HAL	1001
STEADY-STATE VS. RELATIVISTIC	N63-23451	24-05	CATAMORPHO CONTRACTOR OF STREET	14 200 cm of 8 a	16-11
RELAXATION SA SPIN-LATTICE RELAXATION			RELAXATION PROCESSES OF INVISCID, N FLOW BEHIND BOW AND NORMAL SHOCK WA CAL-QM-1626-A-12/1/	VES	
RELAXATION OF QUANTUM MECHANIC	N63-11191	03-23	STANDING DETONATION WAVES - HYDROGE IGNITION DELAY - VIBRATIONAL RELATI	N-OXYGEN	29 () (44
GAS DYNAMICS OF CHEMICALLY-REA EQUILIBRIUM R62SD985-CLASS I			THO-DIMENSIONAL EFFECTS IN GASEOUS NO	DETONATIO 3-18550	NS 17-11
OVERRELAXATION METHOD FOR OPERAYO-9192		S	CHEMICAL REACTIONS IN SUPERSONIC NO VIBRATIONAL RELAXATION - ELECTRON-I RECOMBINATION - SUDDEN FREEZING ANA	ON	103
GENERALIZATION OF CONSTITUTIVE LINEAR VISCOELASTICITY WITH LA APPLICATION TO RELAXATION CASE CU-17-62-ONR-266/78/-CE	ARGE DEFORMATI		RELAXATION EFFECTS IN TRANSPORT PRO ROUGH SPHERE GAS - KINETIC THEORY O HOLECULES	PERTIES OF	F
MECHANISM OF PLASTIC DEFORMAT	VALUE AND LABOUR	011		3-18877	18-11
SOLUTIONS - RELATIONSHIP OF RE TO ALLOY HARDNESS AND RESISTAN	LAXATION COEF	FLOW.	FERROMAGNETIC RESONANCE AND RELAXAT IRON GARNET HDL-TR-1143 No.	08-249	TRIUM 18-25
STRESS RELAXATION OF FLUOROCAN DURING GAMMA IRRADIATION	The State of the Lates.	S	SHOCK RELAXATION IN GASEOUS SUSPENS PARTICLES AND PARTICLE DRAG COEFFIC	SIONS OF SE	OLIO
ZENER EFFECT IN ALLOYS - ATOM STRESS-INDUCED ORDERING OF SOI	UTE ATOMS, AN	N ELASTIC	CAL-90-P VISCOELASTIC PROPERTIES OF PLASTICI CHLORIDE - STRESS RELAXATION CURVES	3-19085 ZED POLYV	INYL
STRAIN, AND RELAXATION STRENGT	N63-12733	06-18	CONCENTRATION AND POLYMER STRUCTURE ONR-TR-RLT-62		
SPIN RELAXATION-TIME OF LIQUID FIELDS RAC-1054	N63-13557	08-24	MAGNETIC RELAXATION IN RARE-EARTH M		
VIBRATIONAL NONEQUILIBRIUM WIT DENSITY FLOW AEDC-TOR-63-31		LOW- 08-11	COMPUTER PROGRAMS FOR SOLUTION OF R BEHIND A NORMAL SHOCK HAVE AND FOR FLOW ABOUT BLUNT BODY HYPERSONIC VE	RELAXATION	ZONE
OZONOSPHERE CHANGES BY ROCKET	EXHAUST GASES		CAL-QM-1626-A-12/II/ N6	3-19511	19-20
OZONE RELAXATION TIMES AND OPT GCA-TR-62-14-G	N63-14038		NONEQUILIBRIUM FLOW OVER A CONE - N RELAXATION EFFECTS BRL-1203	/18RATIONA 53-19642	19-11
CHEMICAL RELAXATION & MOLECULA VIBRATIONAL HEATING CAL-QM-1626-A-10		CHA	MASTER CURVES AND VISCOELASTIC BEHA AMORPHOUS POLYMERS IN STRESS RELAXA ONR-TR-RLT-61	ATION	19-07
CROSS RELAXATION IN NON-ZEEMAN UTILIZATION IN PARAMAGNETIC MI AF-101	SPIN SYSTEMS CROWAVE MASER N63-14339	AND S 10-23	STRESS RELAXATION OF MONODISPERSE A POLYSTYRENE - SHEAR VISCOSITY AND S	AND POLYDI	SPERSE
TRANSITION THEORY OF CREEP RUI HRC-321		XATION 10-20	RELAXATION TIME OF POLYETHYLENE DIS POLYETHYLENE TETRASULFIDE		
FERRANTI MERCURY COMPUTER SOLI	TIONS		ONR-TR-RLT-65	63-21024	21-07
CORRESPONDENCE BETWEEN RELAXAT	N63-14830	11-02	GAS DYNAMICS - RELAXATION OF GASES CONTINUUM FLOW	10MARDS 3-21564	22-11
STREAMLINE IN BLUNT-BODY FLOW CAL-QM-1626-A-7			SHOCK WAVE STRUCTURE WITH ROTATIONAL VIBRATIONAL RELAXATION		22-24
STRESS CREEP, RELAXATION, FAT		TURE OF	STRESS RELAXATION DUE TO SMALL STRANDEFORMED VISCOELASTIC MATERIAL AGES-63-5	AINS APPLI 63-22059	
HIGH TEMPERATURE FASTENERS - S			PROPERTIES OF SHOCK RELAXATION IN C CARRYING SHALL PARTICLES CAL-87-P	GAS FLOWS 63-22752	23-11
GEMP-186 VIBRATIONAL RELAXATION IN DXY			MAXIMUM RELAXATION TIMES IN		
TEMPERATURE TG-230-T330		14-11	POLYTETRAFLUOROETHYLENE	63-23081	24-19
KINETIC APPROACH TO CALCULATION DEPENDENT CONDUCTIVITY AND RE			MASER CROSS-RELAXATION THEORY	63-23526	24-25
ELECTRON-PHONON INTERACTIONS MATT-188		14-25	MASER - GENERAL THEORY OF CROSS REL	TOTAL STREET,	OR 24-25
RELAXATION OF ALUHINUM-ALUHINU	N63-17154	15-18	APPARATUS FOR MEASURING STRESS RELATING STRESS RELATION SHEAR OF VISCOELASTIC MATERIALS	AXATION HO	DULUS

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-11 M -11

-11

-07

-11 JH -25

11

11

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1

BAL-MEMO-1498 MOTI ADTIVAM TIZMA AT N63-23697 1 24-33	MATERIAL EVALUATION FOR LITTLEJOHN FROMT SHOE RELEASE PIN RS-TR-63-8 N63-19877 19-34
CALCULATION OF THE SIMPLEST OPTIMUM RELAY SYSTEMS OF THE SECOND ORDER FTD-TT-62-877/16264 M63-10301 01-09	RELIABILITY SYMPOSIUM ON BALLISTIC MISSILE & SPACE TECHNOLOGY. 1962 - VOL 1. SPACE VEHICLES, HYPERSONICS.
APPLICATIONS OF COMPLEMENTARY DECODING SYSTEMS WITH DIRECTIONAL ELEMENTS, SWITCHES AND RELAYS FTO-TT-62-1007/162 M63-1044 01-08	REENTRY, STRUCTURES, MATERIALS & RELIABILITY AM-84 N63-10370 01-01
SUPPRESSION OF SELF-OSCILLATIONS IN SERVOPILOT SYSTEM FTD-TT-62-876/16264 N63-10446 01-22	MOMPARAMETRIC TECHNIQUE FOR RELIABILITY COMPARISONS N63-10386 D1-20 RELIABILITY AS A THERMOSTRUCTURAL DESIGN CRITERION
POWER ENGINEERING AND AUTOMATION - INVARIANCE, STABILIZATION AND REPRODUCTION, PULSE-RELAY SYSTEM	ROCKET ENGINE SYSTEM RELIABILITY
FTD-TT-62-871/162 N63-10521 01-20 LOGICAL NET MECHANIZATION FOR TIME-OPTIMAL	N63-10493 01-27 RELIABILITY MODEL AND ANALYSIS FOR PROJECT
REGULATION - RAPPING FUNCTION NASA-TN-0-1678 N63-10952 02-20	MERCURY 3-DRBIT MANNED AND UNMANNED MISSION NASA-TN-D-1558 M63-10536 Q1-32
ZERO-ONE DIAGRAMS, FLOW DIAGRAMS AND RELAY SYSTEM FOR DIGITAL COMPUTERS 015-61-11303 N63-11863 04-20	COMPUTER ENGINEERING AND KATHEMATICS JPRS-16490 N63-10536 01-20
SPACE SYSTEMS - SHARING BETWEEN COMMUNICATIONS SATELLITE RELAYS AND TERRESTRIAL MICROMAYE RELAYS	STRUCTURAL INSTABILITY OF SOLID-PROPELLANT ROCKET ENGINES 863-10854 02-33
TO-937 N63-11929 04-01 BROAD-BAND MATCHING OF MICROWAVE CIRCUIT RESULTING	SPACECRAFT MATERIALS RELIABILITY PROGRAM N63-10933 02-17
FROM INCREASED INFORMATION HANDLING CAPACITY OF HICROWAVE SUPER-MULTICHANNEL RELAY LINK NA3-14107 09-08	MISSILE RELIABILITY ESTIMATION N63-11161 09-20
AIRBORNE RADIO RELAY COMMUNICATION SYSTEM RADC-TDR-63-278 N63-19927 19-08	RADIO-FREQUENCY INTERFERENCE IN RADIAC-TELEMETRY SYSTEMS - QUALITATIVE STUDY USNRDL-TR-544 N63-12003 05-08
ELAY SATELLITE SPACEWARN AND MOONWATCH PROGRAMS - TRANSIT AND RELAY PROJECTS - BRAZILIAN PARTICIPATION	PROBABILISTIC NETWORK STUDY - SYSTEM RELIABILITY AFCRL-62-724 NG3-13153 07-09
N63-11023 03-12	RELIABILITY OF ELECTRONIC COMPONENTS AND PURE FLUID AMPLIFIERS 2007 N63-13409 08-11
COMMUNICATIONS SATELLITE PROGRAM - ECHO, TELSTAR, RELAY, AND SYNCOM PROJECTS ARS PAPER-2617-62 N63-11253 03-30	LAUNCH VEHICLE RELIABILITY IMPROVEMENT PROGRAM AGL-62-0049-1 N63-13925 09-17
SPACECRAFT, COMMUNICATIONS, AND TESTS FOR RELAY EXPERIMENTAL COMMUNICATIONS SATELLITE ARS PAPER-2620-62	ELECTRONIC SYSTEMS AND RELIABILITY TECHNIQUES ER-12759 N63-13981 09-17
RELAY PROJECT - COMMUNICATIONS SATELLITE NASA FACTS-G-12-62 N63-12072 05-30	PROBABILITY THEORY APPLIED TO RELIABLE NETWORK DESIGN - REDUNDANT SYSTEMS AND FAILURE MODES - STATISTICS IM-1062 N63-14951 11-09
RELAY PROJECT - COMMUNICATIONS SATELLITE - RADIATION DAMAGE N63-12361 06-32	EQUIVALENT SYSTEMS METHOD FOR EVALUATING RELIABILITY OF ONE-SHOT MEAPONS SYSTEMS
RELAY COMMUNICATIONS SATELLITE REACTIVATED N63-13651 08-32	N63-15342 12-01 RELIABILITY OF FATIGUE LOADED MELICOPTER
RELAY I SATELLITE MISSION OBJECTIVES N63-14121 09-32	STRUCTURES N69-15623 12-33 STATISTICAL METHOD OF ANALYSIS FOR STRUCTURAL
RELAY COMMUNICATION SATELLITE - REAL TIME TELEMETRY NASA-TH-X-50104 N63-17203 15-32	RELIABILITY OF HELICOPTER COMPONENTS N63-15624 12-33
RELIABILITY OF REDUNDANT ANALOG CIRCUITRY FOR USE IN RELAY SATELLITES N63-17281 15-09	RELIABLITY AND EFFICIENCY DESIGN FOR COMMUNICATION SYSTEMS BRL-1186 N63-15673., 12-08
ELECTROENCEPHALOGRAM TRANSMISSION BY RELAY SATELLITE N63-17735 16-08	STRUCTURAL RELIABILITY OF PROPELLANT GRAINS - COMPUTER OUTPUT FROM CURVE FIT STUDIES
COMMUNICATION SATELLITES - ECHO I, ECHO II, SCORE, COURIER, TELSTAR, RELAY AND SYNCOM M63-17758 16-32	LPC-556-R-1 N63-15863 13-20 ASPECTS OF RELIABILITY UNDER COMDITIONS OF ELEVATED TEMPERATURE, CREEP, AND FATIGUE ASD-TOR-63-267 M63-15961 13-33
TRANSMISSION OF U.M. GENERAL ASSEMBLY OPENING BY RELAY I AND SYNCOM II VIA TELEVISION AND RADIO M63-21991 22-08	SPACE VEHICLE PROPELLANT MANAGEMENT - RELIABILITY, MAINTAINABILITY N63-16006 13-01
EARLY COMMUNICATION SATELLITE SYSTEM OF RELAY AND TELSTAR SATELLITE GENERAL TYPE NASA-CR-52150 100-100-100-100-100-100-100-100-100-10	RELIABILITY HANDBOOK FOR ELECTRONIC DESIGNERS - APOLLO NAVIGATION AND GUIDANCE R-368 N69-16154 13-17
ELEASE DEVICE DEVELOPMENT OF RELEASE BOLT, NONFRAGMENTATION FA-R-1645	RELATIONSHIP BETWEEN RANDOM VIBRATION TESTS AND FIELD ENVIRONMENT N63-16762 14-10
The state of the s	

METH AFCR ELEC HILI

PHY

MULTIPLANE VIBRATION TESTING TECHNIQUES FOR FLIGHT EQUIPMENT - FIELD ENVIRONMENT RELIABILITY M63-16763 14-10	RELIABILITY OF TRANSIT NAVIGATION SATELLITE SYSTEM M63-17292 15-32
RELIABILITY TESTING AND CONSIDERATIONS IN DESIGN	DETECTION AND ANALYSIS OF ERROR IN SYSTEM RELIABILITY TESTING N63-17293 15-17
OF MISSILE SYSTEMS AND SPACE PROJECTS - MISSILE & SPACE RELIABILITY SYMPOSIUM, 1962 NASA-CR-50104 N63-17266 15-01	ENVIRONMENTAL RELIABILITY TESTING BY SIMULATION N63-17294 15-10
RELIABILITY TESTING BY DATA COLLECTION AND EVALUATION N63-17267 15-17	USE OF SUCCESS AND FAILURE DATA IN RELIABILITY ENGINEERING N63-17295 15-17
ENVIRONMENTAL RELIABILITY TESTING OF NAVAL HEAPONS SYSTEMS 15-17	TECHNIQUES FOR ANALYSIS AND PREDICTION OF EQUIPMENT RELIABILITY DURING DESIGN N63-17296 15-17
RELIABILITY AND QUALITY CONTROL IN PRODUCTION N63-17269 15-17	RELIABILITY OF HYDRAULIC CONTROL SYSTEMS OF SPACE VEHICLES No.3-17297 15-04
ECONOMIC FEASIBILITY OF RELIABILITY TESTING N63-17270 15-17	RELIABILITY IN PROCURING ELECTRONIC EQUIPMENT FOR F-105D AIRCRAFT N63-17298 15-09
NEEDS IN RELIABILITY RESEARCH N63-17271 15-17	RELIABILITY MONITORING BY OPTIONAL STOPPING SAMPLING TECHNIQUE N63-17299 15-20
GUIDANCE SYSTEM RELIABILITY TESTS N63-17272 15-33	RELIABILITY TESTING - STATISTICAL CIRCUIT ANALYSIS N63-17300 15-28
RELIABILITY OF SERGEANT MISSILE ASSEMBLIES - APPLICATION OF TEST-TO-FAILURE PROGRAM NOS-17273 15-33	RELIABILITY IN MICROELECTRONIC SYSTEMS NO3-17369 15-17
RELIABILITY TESTING - TEST-TO-FAILURE OF ELECTRONIC COMPONENTS N63-17274 15-33	ELECTRONIC EQUIPMENT RELIABILITY - RADAR, GROUND COMMUNICATION RADC-TDR-63-146 N63-17421 15-09
HUMAN ERROR IN RELIABILITY TESTING OF MISSILE SYSTEMS 15-14	RADC-TDR-63-146 RANDOMIZATION TESTS OF STATISTICAL INFERENCE - RELIABILITY TESTING OF AIR FORCE GROUND ELECTRONIC
HUMAN FACTORS IN CLEAN ROOM MANUFACTURING RELIABILITY N63-17276 15-14	RELIABILITY TESTING OF AIR FORCE GROUND ELECTRORIC EQUIPMENT RADC-TDR-62-499 N63-17711 16-20
MAINTENANCE & RELIABILITY - PERSONNEL REQUIREMENTS N63-17277 15-16	RELIABILITY PHYSICS - PHYSICS OF FAILURE N63-18306 17-33
LINEAR PROGRAMMING TECHNIQUES APPLIED TO HUMAN RELIABILITY IN SPACE PROGRAMS - OPTIMIZATION OF CREW TASKS N63-17278 15-20	RELIABILITY ENGINEERING - FAILURE RATE N63-18307 17-33
RELIABILITY OF REDUNDANT ADAPTIVE FLIGHT CONTROL SYSTEMS FOR SPACE VEHICLES No3-17279 15-09	DICTIONARY OF PHYSICAL AND CHEMICAL FAILURE MECHANISMS N63-18308 17-33
SYSTEMS FOR NUCLEAR AUXILIARY POWER PROJECT - RELIABILITY N63-17280 15-06	RELIABILITY ENGINEERING - FAILURE CRITERIA N63-18309 17-33
RELIABILITY OF REDUNDANT ANALOG CIRCUITRY FOR USE IN RELAY SATELLITES No.3-17281 15-09	MODELS OF COMBUSTION PROCESSES FROM COST AND RELIABILITY N63-18577 17-23
SPACE MISSION RELIABILITY PREDICTION THROUGH TIME- STRESS ANALYSIS N63-17202 15-31	NASA POLICIES AND PROCEDURES FOR SATELLITE RELIABILITY THROUGH ENVIRONMENTAL TESTS - REVIEW OF SATELLITE PROGRAM NASA-TH-0-1853 N63-18661 17-17
RELIABILITY ANALYSIS OF REDUNDANCY HECHANISMS N63-17283 15-20	NASA-TN-D-1853 N63-18661 17-17 ENVIRONMENTAL TESTING FOR SCIENTIFIC SATELLITES -
GRAPHIC SOLUTION OF RELIABILITY LOGIC EQUATIONS No.3-17284 15-20	RELIABILITY NASA-TN-D-1900 H63-18664 17-32
MEAN-TIME-BETWEEN-FAILURE APPORTIONMENT IN RELIABILITY CONTROL OF MAULER MISSILE DESIGN	ANALYTICAL FUNCTION FOR PREDICTING RELIABILITY OF FLIGHT CONTROL SYSTEMS ASD-TOR-63-287 N63-19427 19-00
RELIABILITY EVALUATION AND ENVIRONMENTAL TESTING OF PRINTED-WIRING-BOARD SOLDERED JOINTS	ADHESIVE BONDING OF END CLOSURES FOR HIGH STRENGT AND RELIABILITY OF METALS IN ROCKET MOTOR CASES N63-19611 19-34
N63-17286 15-17 RELIABILITY OF CIRCUIT PERFORMANCE PREDICTIONS N63-17287 15-09	RELIABILITY CRITERION FOR SELECTION OF DESIGN STRUCTURAL STRENGTH FOR BUILDINGS SUBJECT TO WIND LOADING N63-20044 19-31
RELIABILITY OF SPACECRAFT ELECTRONIC EQUIPMENT - ASSURING LANGE MEAN-TIME-BETWEEN-FAILURES	EXPONENTIAL RELIABILITY TABLES - SATELLITE LIFETIMES AND OTHER APPLICATIONS N63-20169 20-0
RELIABILITY PROGRAMS FOR L-SYSTEMS OF COMMAND AND	ENVIRONMENTAL TESTING FOR SCIENTIFIC SATELLITE
CONTROL N63-17289 15-01 RELIABILITY OF SOLAR POWER SOURCES N63-17290 15-06	NASA-TH-X-50266 N63-2020B 20-3 PHYSICS OF FAILURE PROGRAM - ELECTRONIC COMPONENT
ACHIEVEMENT OF RELIABILITY IN SPACECRAFT N63-17291 15-06	RELIABILITY RAS-TM-62-2 N63-20279 20-0
	THRESHOLD LOGIC AND RELIABILITY OF SWITCHING

RELIABILITY - MATHEMATICAL ANALYSIS, TESTING,

15-12

15-17

3-10

5-17

5-17

5-04

-01

-20

SIS

-17

b

-09

ate

-20

31

31

33

33

23

7

NOT A MONTH TOXALOWAY BY B HUMAN FACTORS, & QUALITY CONTROL - BIBLIOGRAPHY SCR-998 N63-22090 22-06 NETHORKS AFCRL-63-185 N63-20409 20-09 ECTRONIC APPARATUS RELIABILITY FOR CIVILIAN AND JET ETCH TRANSISTOR RELIABITY IMPROVEMENTS N63-22094 22-09 MILITARY AVIATION AND SPACEFLIGHT N63-20483 20-09 RELIABILITY IMPROVEMENTS FOR GERMANIUM TRANSISTORS - JULY TO OCT 1962 MINAN RELIABILITY AND LIMITATIONS IMPOSED BY BODY PHYSIOLOGY - AEROSPACE MEDICINE N63-22362 23-09 N63-20560 20-16 RELIABILITY IMPROVEMENTS FOR GERMANIUM TRANSISTORS - OCT 1962 TO JAN 1963 DECISIONS OF TRADE-OFF BETWEEN COST, RELIABILITY, MAINTAINABILITY, AND SUPPLY N63-22363 23-09 RELIABILITY IMPROVEMENTS FOR GERMANIUM TRANSISTORS - JAN TO APRIL 1963 N63-20733 21-01 REGRESSION EXPERIMENTS FOR EXPANSIBLE-CONTRACTIBL DESIGN, AUTOCORRELATION ERROR EXPERIMENTS, DYNAMIC PROGRAMMING, DECISION THEORY - RELIABILITY GROWTH N63-22364 23-09 RELIABILITY IMPROVEMENTS FOR GERMANIUM TRANSISTORS - APRIL TO JULY 1963 INPROVING RELIABILITY OF DIGITAL COMMUNICATION
USING REDUNDANCY IN UNCERTAINTY REGION RECEPTION
AFCRL-63-187 N63-20836 21-08 ADHESIVE BONDING OF END CLOSURES FOR HIGH STRENGTH AND RELIABILITY IN ROCKET MOTOR CASES RELIABILITY & QUALITY CONTROL REQUIREMENTS FOR ATLAS ICBM-STANDARD LAUNCH VEHICLE-3 GDA-63-0436 N63-21031 21-30 SPDIR-28 N63-23190 24-30 RELIABILITY OF RECOVERY SYSTEMS N63-23322 24-04 PREDICTION OF STRUCTURAL RELIABILITY IN FLIGHT VEHICLE MODEL - RESPONSE TO ACOUSTIC VIBRATIONAL PRODUCTION ENGINEERING RELIABILITY - COLLECTION ATTACHMENT, CONTACT METALLIZING, LEAD ATTACHMENT, AND ENCAPSULATION IMPROVEMENTS STRESS ASD-TDR-62-801 N63-21115 21-02 N63-23345 24-15 IMPROVING RELIABILITY OF SILICON-ALLOY POWER TRANSISTORS N63-21176 LIMITING LAW FOR RELIABILITY OF SEQUENTIAL SYSTEMS FTD-TT-63-470/16264 N63-23384 24-06 SILICON PLANAR EPITAXIAL AND SILICON GROWN
OIFFUSED TRANSISTORS - RELIABILITY MEASUREMENTS
AND EXPERIMENTAL EVALUATION N63-21199 21-09 WEATHER FORECASTING AND ATMOSPHERIC STUDIES WITH IMPROVED RELIABILITY NAS-23548 24-N63-23548 24-21 DYNAMIC THRUST LOAD EFFECT ON STRUCTURAL INTEGRITY
OF LITTLE JOE THRUST BULKHEAD
OF-12-111 N63-23555 24-33 SILICON PLANAR EPITAXIAL AND SILICON GROWN
DIFFUSED TRANSISTORS - DEVELOPMENT, RELIABILITY
MEASUREMENTS, AND EVALUATION N63-21200 21 N63-23555 24-33 21-09 RELIABILITY CONTROL IN SPACE PROGRAMS SEMICONDUCTOR RELIABILITY IMPROVEMENT N63-21391 22-18 PSI-3000-43-Q-3 N63-23242 24-29 RELIABILITY OF SILICON PLANAR EPITAXIAL TRANSISTOR RELIABILITY ENGINEERING
CF QUALITY CONTROL
PREDICTION OF FIELD RELIABILITY FOR AIRBORNE
ELECTRONIC SYSTEMS
M63-14307 1 N63-21422 22-09 TRANSISTOR RELIABILITY, MANUFACTURING IMPROVEMENT, FAILURE ANALYSIS AND ANALYTICAL-EMPIRICAL SURFACE N63-21423 22-09 APPLICATION OF CRYOGENIC PROPULSION TO SPACE
MISSIONS - EMERGY REQUIREMENTS, SOLAR PROBE
PAYLOADS, ABLATION, RELIABILITY ENGINEERING
M63-15299 12-27 QUALITY PROGRAM EVALUATION PROCEDURES FOR PROBLEM IDENTIFICATION AND RELIABILITY AND SAFETY NEED OF MANNED SPACE FLIGHT SYSTEMS 12-27 N63-21435 TRANSFER FUNCTIONS IN MATHEMATICAL SIMULATION FOR RELIABILITY PREDICTION - DISTRIBUTION, INTEGRAL, AND FREQUENCY FUNCTIONS RADC-TDR-63-87 N63-15327 12-20 PREDICTING RELIABILITY OF AIR FORCE GROUND ELECTRONIC SYSTEMS RADC-TOR-63-300, VOL. 11 N63-21550 22-08 N63-15327 12-20 FAILURE PHYSICS AND RELIABILITY ENGINEERING - USE OF COMPUTERS AND ANALYTICAL MODELS IN COMPONENT TESTING N63-16872 14-17 PREDICTING RELIABILITY OF GROUND ELECTRONIC RADC-TOR-63-300. VOL. I N63-21551 22-06 DETECTION OF FATIGUE FAILURES OF CRITICAL COMPONENTS OF AERONAUTICAL AND ASTRONAUTICAL VEHICLES N63-21668 SYSTEM ANALYSIS OF SAMPLING DATA FOR RELIABILITY CONTROL NASA-CR-50311 N63-17207 A 15-17 SCIENTIFIC MANAGEMENT - RELIABILITY TESTING, USE OF MATHEMATICAL MODELS AND ECONOMIC ASPECTS OF USE OF SUCCESS AND FAILURE DATA IN RELIABILITY N63-21721 22-01 PROCEOURES STATISTICAL PROBABILITY FOR RELIABILITY OF SAMPLE LIFE - WEIBULL DISTRIBUTION N63-17724 16-2 RELIABILITY PROGRAM EVALUATION PROCEDURES FOR MANNED SPACE FLIGHT PROGRAMS
NASA-SP-6002 N69-21912 22-32 M63-17724 16-20 SPUTNIK IV SATELLITE SYSTEMS ANALYSIS - LAUNCHING FACILITIES, AIR COMDITION AND TEMPERATURE CONTROL. RELIABILITY CONTROL, TELEMETRY AND COMMUNICATIONS M63-18449 17-32 N63-21912 22-32 RELIABILITY AND FLIGHT SAFETY IN MERCURY PROJECT N63-21957 22-22-04 CONTROL OF COMPUTER RELIABILITY WITH REDUNDANT SYSTEMS N63-19428 19-09 RELIABILITY IMPROVEMENT FOR GERMANIUM TRANSISTORS N63-22039 22-0 MARINER R SPACECRAFT RELIABILITY MODEL NASA-CR-51223 N63-22053 RELIABILITY TESTING OF L3020 DATA PROCESSING N63-19667 19-01

RELIABILITY CRITERION FOR SELECTION OF DESIGN

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STRUCTURAL STRENGTH FOR BUILDINGS			HUMAN PERFORMANCE IN SIMULATED S TRANSFER AMRL-TDR-62-138	N63-14648	10-14
RELIABILITY ENGINEERING IN MANNED			ORBITAL RENDEZVOUS - TRAJECTORY,		
RELIABILITY THEORY RELIABILITY THEORY FOR NONELECTRO		TUS AND	RM-3275-PR		
MECHANICAL SYSTEMS RAS-TM-63-2			RENDEZVOUS GUIDANCE SYSTEM FOR A VEHICLE AND GEMINI SPACECRAFT	GENA TARGET	DIETH.
MATHEMATICAL ANALYSIS OF PROGRESS			LMSC-A372006	N63-16794	14-30
FUNCTIONS - FAILURE DISTRIBUTION AFCRL-63-163	N63-19669	19-20	SPACECRAFT GUIDANCE - OBITAL REA		17919W
RELIEF MAP LUNAR SELENOGRAPHY — REDETERMINAT CONSTANTS, LUNAR SPHERICITY MEASU MICRORELIEF PHOTOINTERPRETATION	ION OF LIBI	RATION	SATELLITE INTERCEPT AND RENDEZYC SOLVED BY DYNAMIC PROGRAMMING		
AFCRL-63-406 REMOTE CONTROL	N63-15223	11-29	APOLLO/LEM MISSION - REQUIREMENT RENDEZVOUS, IM-TRANSIT RENDEZVOU	IS. & PLANETA	RY
REMOTE HANDLING IN SPACE AMRL-TOR-62-100	N43-10078	01-14	RENDEZVOUS AIAA PAPER-63-353	N63-20031	19-29
REMOTE HANDLING TECHNOLOGY AND EQ AUTOMATION, MASTER-SLAVE MANIPULA	UIPMENT SUI	RVEY.	GEMINI RENDEZVOUS PULSED TRANSPO INTERFEROMETER ANGLE AND RANGE M AIAA PAPER 63-350	NOER RADAR - HEASUREMENT N63-20319	NEEDER.
MOLESCOND - VILLENIES CATAL	N63-10670	300n#0	TECHNOLOGY OF RENDEZVOUS, DOCKIN		
ENGINE DESIGN EFFECT ON REMOTE HA ROCKET ENGINES			RENDEZVOUS, DOCKING, AND TRANSFE MANNED ORBITAL SYSTEMS - AEROSPA	R CAPABILITI	ES FOR
S MATERIAL REMOVAL			COURT OF THE PROPERTY OF ALL		20-29
RENAL FUNCTION CF KIDNEY		GHILLIW	ORBITAL SPACE FLIGHT - TRAJECTOR ORBITAL MECHANICS, PERTURBATIONS RENDEZVOUS AND SATELLITE LIFETIME	MANEUVERIN	
RENAL HEMODYNAMIC RESPONSE TO INC PRESSURE			NASA-SP-33, PT. 1		
CARI-62-18 BICARBONATE EXCRETION DURING HYPO SAM-TDR-62-123	THERMIA	10 10	OPTIMUM TWO-IMPULSE ORBITAL TRAN RENDEZVOUS BETWEEN INCLINED ELLI AIAA PAPER-63423	PTICAL ORBIT	S
RENAL REGULATION OF BICARBONATE L			BIBLIOGRAPHY - RENDEZVOUS AND OR	BITAL DOCKIN N63-22776	
HYPOTHERMIA SAM-TDR-62-133	N63-12330	05-16	BIBLIOGRAPHY OF SPACE RENDEZVOUS - RE	- RESCUE AN	
REVERSIBLE HEMATURIA AND OLIGURIA VENOUS PRESSURE ELEVATION	FOLLOWING	RENAL	RECOVERY AD-410085		- 500M
	N63-14333		GEMINI GUIDANCE & CONTROL SIMULA RENDEZVOUS MANEUVER	TION FOR SPA N63-23219	CE 24-22
ALKALOSIS DUE TO INTRAVENOUS SODI INFUSION IN DOGS SAM-TOR-63-15	UM BICARBON N63-18897	18-16	RENDEZVOUS SPACECRAFT THE MANNED LUNAR MISSION - APOLL	O PROJECT	
EFFECT OF UNITHIOLE ON THE RENAL				N63-10251	-4248
	N63-23295	24-16	GEMINI PROJECT - RENDEZVOUS SPAC PLANNING NASA-CR-50458	ECRAFT MISSI N63-18413	PERDIC
RENDEZVOUS SA EARTH ORBITAL RENDEZVOUS /EOR/ SA LUNAR ORBITAL RENDEZVOUS /LOR/			REPAIR	IPHENT HAINT	
INFLUENCE OF PRECESSION OF EARTH ON LUNAR MISSION REQUIREMENTS	RENDEZVOUS	ORBITS	AT MISSILE RANGE	N63-12810	(1)200
ANGULAR MOTION DETECTION BY HUMAN	PILOTS AND	NAMES ASSESSED.	REPAIR-COST PROCESSES WITH POISS FAILURE INTERVALS		
APPLICATION TO SPACE RENDEZVOUS CO	N63-10.626	02-14	PMR-TM-61-19 SAFETY AND REPAIR RATE WITH REGA	N63-12811	177-38
ABORT FROM A MANNED LUNAR LANDING RENDEZVOUS IN A 50-MILE ORBIT NASA-TN-D-1514		NAME OF TAXABLE PARTY.	CIVIL AIRCRAFT STRUCTURES FFA-MEHO-PE-15	N63-13972	FAS BE
EFFECT OF LUNAR ORBIT RENDEZVOUS (OPERATIONS AND SUPPORT PROBLEMS OF EXPLORATION	CONCEPT ON	TESTS,	REPAIR OF LEAKAGE IN MANNED SPAC PLASTIC & ADMESIVE SEALS ASD-TDR-62-1015	E VEHICLE CA N63-10832	TEMPLE C
ARS PAPER-2686-62 AUTOMATIC CONTROL SYSTEM FOR TERM			GERMAN LUFTHANSA PROGRAM ELECTRO INSTRUMENTATION MAINTENANCE & RE AND DEMAND OF SPARE PARTS	NIC PAIR - SUPPL N63-20480	Y.
OF SATELLITE RENDEZVOUS	463-11780	CONTROL	OPTIMUM WAITING PERIOD FOR AIRCR	AFT ENGINE A	NECTAL
VISUAL ACUITY OF PILOT AS APPLIED	TO RENDEZV	ous	ELECTRONIC APPARATUS MAINTENANCE	N63-20481	
	163-12884	07-14	REPEATER COMMUNICATIONS SATELLITES - ACTI	UE DEDEATERS	

HUMAN PERFORMANCE IN SIMULATED	
AMRL-TDR-62-138	N63-14648 10-14
ORBITAL RENDEZVOUS - TRAJECTORY PROPULSION	
THOO YES CHINGS DECITATIONS INC.	N63-16551 14-29
RENDEZYOUS GUIDANCE SYSTEM FOR VEHICLE AND GENINI SPACECRAFT LMSC-A372006	N63-16794 14-30
SPACECRAFT GUIDANCE - OBITAL RE	SECURITIONS OF TRADE-
TRANSFER	N63-16807 14-29
SATELLITE INTERCEPT AND RENDEZV SOLVED BY DYNAMIC PROGRAMMING	
	N63-18071 16-30
APOLLO/LEM MISSION - REQUIREMEN RENDEZYOUS, IN-TRANSIT RENDEZYO RENDEZYOUS	TS OF ORBITAL
	N63-20031 19-29
GEMINI RENDEZVOUS PULSED TRANSP	ONDER RADAR -
INTERFEROMETER ANGLE AND RANGE AIAA PAPER 63-350	N63-20319 20-32
AEROSPACE MEDICINE	NG, AND TRANSFER - N63-20564 20-29
RENDEZVOUS, DOCKING, AND TRANSF MANNED ORBITAL SYSTEMS - AEROSP	ACE MEDICINE N63-20565 20-29
ORBITAL SPACE FLIGHT - TRAJECTO ORBITAL MECHANICS, PERTURBATION RENDEZYOUS AND SATELLITE LIFETI	S, MANEUVERING, &
	N63-21101 21-32
OPTINUM TWO-IMPULSE ORBITAL TRA RENDEZVOUS BETWEEN INCLINED ELL AIAA PAPER-63423	IPTICAL ORBITS
BIBLIOGRAPHY - RENDEZVOUS AND O	RBITAL DOCKING N63-22776 23-30
BIBLIOGRAPHY OF SPACE RENDEZVOU	S - RESCUE AND
AD-410085	N63-22857 23-32
GEMINI GUIDANCE & CONTROL SIMULE RENDEZVOUS MANEUVER	ATION FOR SPACE N63-23219 24-22
NDEZVOUS SPACECRAFT THE MANNED LUNAR MISSION - APOL ARS PAPER-2464-62	LO PROJECT N63-10251 01-29
GEMINI PROJECT - RENDEZVOUS SPA	CECRAFT HISSION
PLANNING NASA-CR-50458	N63-18413 17-32
PAIR REPAIR VERSUS REPLACEMENT IN EQ	
AT MISSILE RANGE	N63-12810 06-01
REPAIR-COST PROCESSES WITH POIS	SON-DISTRIBUTED
FAILURE INTERVALS PMR-TM-61-19	N63-12811 06-01
SAFETY AND REPAIR RATE WITH REG	ARD TO FATIGUE IN
CIVIL AIRCRAFT STRUCTURES FFA-MEHO-PE-15	N63-13972 09-04
REPAIR OF LEAKAGE IN MANNED SPA	CE VEHICLE CABIN -
REPAIR OF LEAKAGE IN MANNED SPAI PLASTIC & ADMESIVE SEALS ASD-TDR-62-1015	N63-18832 18-39
GERMAN LUFTHANSA PROGRAM ELECTRI INSTRUMENTATION MAINTENANCE & RI AND DEMAND OF SPARE PARTS	EPAIR - SUPPLY N63-20480 20-01
OPTIMUM WAITING PERIOD FOR AIRCE ELECTRONIC APPARATUS HAINTENANCE	E AND REPAIR N63-20481 20-01
PEATER	ANSA-CS\$1223

-30 -29

-30

-29

-32

-29 OR -29

29

30

32

29

32 CE 01

01

04

11

11

PASSIVE REFLECTORS N63-1	DASSEL LODGE	RESIN SA EPONY RESINA JULISS WITCH STRUMBE AD THE THEFT
LOW-ACTITODE REPEATER SATELLITE N63-1	C SELETIZARE.	SA SYNTHETIC RESIN CF LUCITE MICROSCOPIC, STUDY OF FRACTURE MODE IN FILAMENT
EPLICATION 5 FRACTIONAL REPLICATION	N SALVEAV	MOUND GLASS-RESIN COMPOSITES TEAM-234 N63-10503 01-19
POWER ENGINEERING AND AUTOMATION - INV. STABILIZATION AND REPRODUCTION, PULSE- FTD-TT-62-871/162	RELAY SYSTEM	DETERMINATION OF PHTHALIC ANHYDRIDE IN ALKYD RESINS BY GAS-LIQUID CHROMATOGRAPHIC METHOD CCL-132 N63-11717 04-07
ANALOGY OF CHARACTERISTICS OF REPRODUC	MANAGEMENT OF THE PARTY OF THE	PYROLYSIS OF PLASTICS IN HIGH VACUUM ARC INAGE
TELEVISION AND PHOTOGRAPHY JPRS-16930 N63-1	DESTRUCTION AND AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF	R62SD57 N63-11794 04-19
GAMMA AND FAST NEUTRON RADIATION - REP	RODUCTION IN	ULTRAVIOLET ABSORPTION BY MURRAY METEORITE - MESIN TREATMENT N63-14636 10-07
NICE AND LIFESPAN AFTER IRRADIATION N63-1	7047 15-16	MACHINING OF REFRACTORY MATERIAL, TUNGSTEN,
CARBON DIOXIDE AND BICARBONATE IN REPRI		ZIRCONTUM AND ALUMINUM DXIDE COATINGS ASD-TR-7-532A/VII/ M63-14864 11-18
REPRODUCTION OF MICE JPRS-21200 N63-2:	CATTERNOON OF	THIN POLYTETRAFLUDROETHYLENE RESIN LUBRICANT COATINGS PRODUCED BY ELECTODEPOSITION N63-15272 12-17
ESEARCH AND AND SOUTH AND MEDICAL PROPERTY.	104145414341	N63-15272 12-17 HIGH YEMPERATURE INORGANIC RESIN & ELASTOMEN RED -
S HIGH TEMPERATURE RESEARCH S OPERATIONS RESEARCH	100 70 - 100	DEGRADATION OF ASBESTOS & MICA, SILICATE-SILANE REACTIONS, PHENYL SUBSTITUTION
BEARCH AIRCRAFT	LUGBAYA I	N63-15414 12-07
PROPULSION AND VZ-II AIRCRAFT	205 550 534	INVESTIGATION OF REINFORCED PLASTICS - RESIN-GLASS FIBERS MADD-TR-6D-746, PT. 11 N63-15465 12-18
News Carestan attention Privings No. 1.	TAGN FABRITHES	1 TO THE STATE OF THE PROPERTY
OUGLAS C-54 AS RESEARCH VEHICLE TO SI AIRCRAFT HSR-RR-62/8-HK-X N63-1	SECOND STATE	MICROSTRUCTURE TESTING OF RESIN POLYMER MECHANICAL PROPERTIES AND RHEOLOGICAL BEHAVIOR OMERA-TH-71 N63-15739 12-17
CORIOLIS EFFECT IN ZERO-GRAVITY RESEAR HRL-MEMO-P-9 N63-1		FLEXIBLE POLYMERS AS THERMAL INSULATION IN SOLID PROPELLANT ROCKET ENGINE - PHENOL, EPOXY, AND FURAN RESINS N63-15076 13-07
HOT CYCLE PROPULSION SYSTEM RESEARCH A USING HOT CYCLE PRESSURE JET ROTOR SYS TO 4 GAS GENERATORS	TEM AND TWO	DEVELOPMENT OF FLEXIBLE POLYMERS AS THERMAL INSULATION IN SOLID-PROPELLANT ROCKET ENGINES -
HTC-AD-62-31 N63-1	9163 18-04	STUDY OF EPDXY AND PHENOL RESINS
SSEARCH REACTOR 5 LOS ALAHOS MOLTEN PLUTONIUM REACTOR / 5 TRIGA MARK F REACTOR CF BOILING WAYER REACTOR		EFFECT OF CURE CONDITION ON WEAR LIFE AND CORROSION PROTECTION OF RESIN-BONDED SOLIO FILM LUBRICANT
SEARCH VEHICLE AND CHA STHEMPHURASH Y	RESISTIVI	RIA-63-959 N63-15897 19-17
DATA TRANSMISSION & TRAJECTORY DETERMINE FOR RESEARCH VEHICLES	NING SYSTEMS	APPLICATION OF RESIN-INPREGNATED POROUS CERAMICS TO REENTRY VEHICLE HEAT SHIELDS
AFCRL-63-821/1/ N63-2	257,410 464 - 164	N63-16093 13-19
MERPINE CF DEPRESSANT		DEVELOPMENT OF HIGH TEMPERATURE LAMINATED RESINS S-13859 N63-16279 13-07
SHIVERING - RESPONSE TO ANTI-PARKINSON PARKINSON DRUGS, ATROPINE AND RESERPINI AAL-TDR-62-17	Eucer Animal Con	RESIN MODIFIED TWO PACKAGE WASH PRIMERS - PAINTS AND COATINGS
SIDUAL GAS	CT CRATCHE -	MO3-10324 14-17
OPTICS AND STRUCTURE OF CATHODE SPUTTE WITH SPECIAL REFERENCE TO REACTION WITH GAS		MAXIMUM STRAIN IN RESIN-FIBERGLAS COMPOSITES NRL-5752 N63-17033 15-19
TIL/T-5202 N63-1	2721 06-23	ADSORPTION OF TRACE ELEMENTS FROM SULFURIC ACTO BY BASIC ANION EXCHANGE RESINS
SINTERED POWERED ALUMINUM ALLOYS - RES REMOVAL AND HIGH TEMPERATURE, FATIGUE,		AE-103 W63-17959 16-07
RESISTANCE EUR-272.F N63-1	OT THE STREET	SPACE ENVIRONMENT EFFECTS ON INSULATING PROPERTIES OF TEFLON RESINS NA3-20171 20-19
SIDUE NA 3810M PRODUCES AND MACHINE		COMPOUNDS AND POLYMERS CONTAINING SILICOM-NITROGEN
APPLICATION OF RESIDUE TO DIGITAL COMPI PROGRAM - MODULAR PROGRAMMER ASD-TDR-62-686 N63-14		BONDS FOR SPACE VEHICLE USE - COATINGS, HYDRAULIC FLUIDS AND IMPREGNATING RESINS FOR GASKETS NASA-CR-51374 N63-21735 22-07
RECOVERY OF ALUMINUM AND FLUORINE COMPO		HEE DE COMMONI Y HEED SATELLEYE BOTTENE POMBOLINOS
BH-RI-6219 N63-1		SEALANTS AND RESINS MASA-TH-X-50354 MG3-22052 22-19
ELECTRIC SORPTION AS POSSIBILITY OF REI TIME OF ADSORBING GASEOUS RESIDUES ON EMITTER OF A MUELLER MICROSCOPE	TUNGSTEN	ALUMINA CONDENSED FURFURYL ALCOHOL RESINS AS BINDERS FOR GRAPHITE MATERIALS MADD-TR-61-72, V. XV M63-22125 22-19
FTD-TT-63-377/162 N63-2:	3640 24-09	AMERALS TO MODERATE HYPORALIONOSE NASTURAL TO A STURENCE NASTURAL TO A MODERATE NASTURAL TO A STURENCE NASTURA

RESI SA SA SA CF CF

STABILITY OF ACRYLATE RESIN CELLULAR SHELLS - JOINT & BONDING EFFECT ON YIELD AND BUCKLING FAILURE N63-22489 23-19	CONDITIONS JPRS-20749 N63-19956 19-
RESIN SYSTEM FOR FILAMENT WOUND STRUCTURES - POLARIS MISSILE PROGRAM N63-22504 23-19	FRACTURE RESISTANCE OF NOTCHED METAL SHEETS - VARYING DIMENSION EFFECT ON CRACK PROPAGATION N63-20084 20
ESISTANCE SA ELECTRIC RESISTANCE SA NEAT RESISTANCE	SYNTHESIS OF UNITY-GAIN COMPLEX-ZERO RESISTANCE- CAPACITANCE NETWORK NRL-5972 N63-21457 22-
SA IMMUNITY SA KAPITZA RESISTANCE SA MAGNETORESISTANCE SA OXIDATION RESISTANCE	AUDIOFREQUENCY RESISTANCE OF NONIDEAL SUPERCONDUCTORS - FLUX TRAPPING AS LOSS MECHANIS AVGO-EVERETT RES. REPT161 N63-22201 23-
A RADIATION RESISTANCE A MAVE RESISTANCE F ELECTRIC CONDUCTIVITY F ELECTRIC PROPERTY	RESISTANCE DEVICE CF RESISTOR
F IMPEDANCE SUPERSONIC RESISTANCE REDUCTION THROUGH FUSELAGE LIFT	RESISTIVITY SA PHOTORESISTIVITY ELECTRICAL PROPERTIES OF PLUTONIUM OXIDES -
MGL PAPER-13 N63-10011 01-02 EFFICIENCY OF A CROSS-RIBBED CURVILINEAR DIFFUSER	RESISTIVITY, ACTIVATION ENERGY, AND THERMOELECT POWER DETERMINATIONS HW-75120 N63-12410 06
FTD-TT-62-1151/16264 N63-10351 01-03 INFLUENCE OF TEMPERATURE AND PREFERRED ORIENTATION ON HALL COEFFICIENT AND RESISTIVITY OF PURE	RADIATION DAMAGE IN GRAPHITE BY HIGH EMERGY ELECTRONS - LENGTH, LATTICE SPACING AND RESISTIVITY CHANGES N63-12412 06-
REFLECTION COEFFICIENT OF FERRITE LAYERS SHUNTED WITH A GRAPMITE FOIL RADC-TOR-62-507, VOL. 11 N63-10571 01-23	DEEP RESISTIVITY SURVEY IN NEBRASKA - SUBSURFAC LAYERS AFCRL-62-959 N63-12828 06
MAGNETIC FIELD INDUCED NEGATIVE RESISTANCE IN INDIUM ANTIMONY - IMPACT IDNIZATION & HALL EFFECT	EFFECT OF DXYGEN IN SILICON AND GERMANIUM - HEATREATMENT AND RESISTIVITY N63-14838 11
AROD-2238-5 N63-11565 04-25 CHANGE IN WELD ZONE RESISTANCE IN SPOTMELDING ALUMINUM ALLOYS N63-12113 05-17	DIELECTRIC PROPERTIES OF COMMON HIGH EXPLOSIVES PA-TM-1170 N63-15899 13
NASA PROGRAM FOR ELECTRIC PROPULSION - RESISTANCE- HEATED HYDROGEN THRUSTOR N63-13670 08-26	THERMOELECTRIC MATERIALS - RESISTIVITY & SEEBEC COEFFICIENT OF COPPER, NICKEL, & BISMUTH SULFIC CUPROUS TELLURIDE & LEAD TELLURIDE MIXTURES
SURFACE RESISTANCE OF SUPERCONDUCTORS N63-13679 08-23	SRI-21 N63-16835 14 THERMOELECTRIC MATERIALS - RESISTIVITY & SEEBEC
NAVY PROGRAM - RADIO ASTRONOMY - FRACTURE SAFE DESIGN OF STEEL STRUCTURE - PROGRESS REPORT N63-14736 11-05	COEFFICIENT OF MOLTEN CUPROUS SULFIDE AND CUPRO SULFIDE-FERROUS SULFIDE COMPOSITION SRI-22 N63-16836 14
NEW PRINCIPLES FOR FRACTURE-SAFE DESIGN OF STEEL STRUCTURES N63-14738 11-34	QUENCHED-IN RESISTIVITY IN DILUTE ALLOYS NASA-CR-50210 N63-17205 15
METHOD FOR DESIGN OF FRACTURE-SAFE STEEL STRUCTURES - WELDMENTS, FORGINGS, AND CASTINGS NRL-5920 N63-14983 11-34	RESISTIVITY MEASUREMENTS AND MEASUREMENT OF VOLTAGE DUE TO HALL EFFECT OF SEMICONDUCTING DIAMONDS AFCRL-63-309 N63-21463 22
METALLOGRAPHY OF DISPERSION-HARDENED ALLOYS AND	RESISTIVITY SURVEY OF DEEP STRATA PROPAGATION
ITS RELATION TO CREEP RESISTANCE N63-15436 12-18	AFCRL-63-370 N63-23804 24 RESISTOR
MICROSTRUCTURE OF DISPERSION-HARDENED ALLOYS AND ITS RELATION TO CREEP RESISTANCE M63-15534 12-18	COMPATIBLE TECHNIQUES FOR INTEGRATED CIRCUIT FABRICATION - THIN FILMS, CAPACITORS, RESISTORS N63-14327 10
NICKEL CADMIUM BATTERIES - RESISTANCE, IMPEDANCE, CAPACITANCE AND PHASE SHIFT ASD-TOR-63-191 N63-16742 14-06	MICROELECTRONICS LAB REPORT - FABRICATION METHO FOR RESISTORS, CONDUCTORS, AND CAPACITORS N63-17354 15
FAILURE MECHANISMS - EFFECTS OF TIME AND TEMPERATURE ON RESISTANCE TO FAILURE N63-16871 14-17	RADIATION TOLERANCE OF MATERIALS AND COMPONENTS IN SPACE APPLICATIONS - CERAMICS, PLASTICS, ADMESIVES, SEMICONDUCTORS AND RESISTORS
SINTERED POWERED ALUMINUM ALLOYS — RESIDUAL GAS REMOVAL AND HIGH TEMPERATURE, FATIGUE, CREEP RESISTANCE	LMSC-8-19-62-8 N63-19395 18 RELATIONSHIP BETWEEN LOW FREQUENCY NOISE AND FAILURE IN RESISTORS AND SEMICONDUCTOR DEVICES
EUR-272.F N63-17561 16-18 TWO-DIMENSIONAL MAGNETOGASDYNAMIC FLOW WITH	RADC-TDR-63-338 N63-21798 22 PRECISION VOLUME RESISTOR N63-22793 23
RESISTANCE, VISCOSITY AND HEAT CONDUCTION N63-19468 19-11	SYNTHESIS OF RESISTOR N-PORTS
DELAYED FRACTURE OF ALUMINUM ALLOYS BY LIQUID ZINC AMALGAM FA-R-1677 N63-19662 19-18	PIBMRI-1143-63 N63-22867 23 RESOLUTION ELECTRON SPECTROMETER, INCREASED RESOLUTION AND
TISSUE RESISTANCE ACCOMPANYING ACCLIMATIZATION OF AMIMALS TO MODERATE HYPOXIA UNDER NATURAL	BEAM CURRENT, ELECTRON IMPACT SPECTRA AFCRL-62-1070 N63-10562 01

-11

53

ac

-23

19

19

19

17

5,

la

METERODYNE INTERFERENCE SPECTROSCOPY FOR HIGH RESOLUTION MEASUREMENT OF ABSORPTION LINES N63-15284 12-19 12-15 HIGH MASS RANGE RESOLUTION AND SENSITIVITY OF OMEGATRON MASS SPECTROMETER AFCRL-62-953 N63-15433 12-15 COMPARISON OF PHOTOGRAPHIC, CATHODE RAY TUBE. AND TELEVISION RESOLUTIONS - DEFINITION AND CONVENTION N63-20726 21-09 TIME RESOLUTION CHARACTERISTICS OF PHOTOMULTIPLIER
AID-T-63-112 N63-22887 23-23 RESONANCE, RESONANT FRÉQUENCY
SA NACHETIC RESONANCE
SA HACHETISCONIC RESONANCE
SA PARAHAGNETIC RESONANCE
SA PARAHAGNETIC RESONANCE
SA PLASHA RESONANCE DAMPING OSCILLATION CF VIBRATION INTERNAL BODY MOVEMENTS RESULTING FROM EXTERNALLY APPLIED SINUSCIDAL FORCES OBSERVED BY X-RAY DEVICE AMRL-TDR-62-81 N63-10472 01-16 RESONANCE ABSORBERS WITH ABSORBING STRUCTURES IN OR BEHIND A METAL PLATE RADC-TDR-62-530 N63-10572 N3-1 N63-10572 01-23 ELECTRON SPIN RESONANCE IN POLYCRYSTALLINE GRAPHITE WADD-TR-61-72, VOL. VIII HOLECULAR-BEAM ELECTRIC-RESONANCE SPECTROMETER AND RADIO FREQUENCY SPECTRA OF LITHIUM FLUORIDE STABILITY REQUIREMENTS FOR VIBRATORY COMBUSTION IN A RESONANCE BURNER N63-11351 03-26 VIBRATIONS - FORMULAS FOR HOOAL DENSITY, RESONANT FREQUENCIES & POINT INPEDANCE OF CYLINDRICAL SHELLS N63-11583 04-33 04-33 RESONANCE CAPTURE OF ELECTRONS FROM ATOMIC HYDROGEN BY HIGH ENERGY PROTONS - PROBABILITY OF IMPACT CHARGE TRANSFER INCLUDING MOMENTUM EFFECTS N63-11642 04-23 THE FABRY-PEROT LASER RESONANCES
AFCRL-62-778
N63-11672
04-23 LATERAL VIBRATION CHARACTERISTICS OF SCALE MODEL SATURN SA-1 LAUNCH VEHICLE - RESONANT FREQUENCIES AND DAMPING NASA-TN-0-1593 N63-12246 D5-30 CATALOG OF NUCLEAR QUADRUPOLE INTERACTIONS AND RESONANCE FREQUENCIES IN SOLIDS - PART I, ELEMENTS AND INORGANIC COMPOUNDS N63-12476 06-23 NICRONAVE INTERACTIONS AT CRYSTAL DEFECT CENTERS -ELECTRON SPIN RESONANCE, LASER, SOLID STATE PHYSICS, INTERMETALLICS, DETECTORS N63-13121 07-23 MANGANESE ELECTRON SPIN RESONANCE IN PERIODIC GROUP II-A/VI-B COMPOUNDS N63-13124 0 M63-13124 07-25 RESONANCE METHOD FOR SOLVING SCATTERING PROBLEMS OF ONE-DIMENSION RELATIVE SIGNS OF NUCLEAR MAGNETIC RESONANCE SPIN-SPIN COUPLING CONSTANT IN STYRENE OXIDE BY DOUBLE RESONANCE JPL-TR-32-310 M63-13275 07-07 RESONANCE TUBES IN SUPERSONIC FLOW FIELD MG3-13447 08-02 STRUCTURAL DESIGN OF SANDWICH PANELS FOR INCREASED RESONANCE FATIGUE LIFE BY DAMPING BENDING WAVES ASD-TDR-62-1098

DYNAMIC NONLINEAR WAVE PROPAGATION IN IONIZED

MEDIA - PART 7 - PLASHA WAVES IN A HONOGENEOUS COLD STREAM 413 00 MOUTE STREETS IN63-1364373 08-24 115-32 FREE OSCILLATIONS OF THE EARTH - RESONANT FREQUENCY - PERTURBATIONS MASA-TR-R-13640644 THANGES ON 1863-1385 36 044 N63-13859 09-12 RESONANCE INTEGRALS AND SELF-SHIELDING FACTORS FOR DETECTOR FOILS USED IN REACTOR PHYSICS MEASUREMENT OP-817 M63-13977 09-23 RELATIONSHIPS OF RELATIVE DECAYS IN CERTAIN RESONANCES IN THEORIES WITH BROKEN SYMMETRY NYO-10260 N63-14326 10-23 K-GENERATION BY RHO-MESON EXCHANGE N63-14337 RESONANT FREQUENCY EQUATION FOR RIGHT CIRCULAR CYLINDERS OF ANY DIMENSION - NICROMINIATURE CERAMIC PIEZOELECTRIC FILTER & TRANSFORMER DESIGN TR-1108 N63-14559 10-0 ELECTRON TRANSFER REACTIONS AND FORMATION OF POLYRADICAL ANIONS
JPL-TR-32-393 N63-14585 10 AMONTO 12 NO NA3-14585 10-10-07 OPTICAL TRANSITION PROPERTIES - SURVEY N63-14638 10-23 POSITIONING OF FERRIMAGNETS IN RESONANT CAVITY TO PRODUCE MAGNETOSTATIC OSCILLATION MODES MILLIMETER WAVE AMPLIFICATION BY RESONANCE SATURATION RADC-TDR-63-84 TECHNOLING CONTRACT S N63-1506281 1-11-08 NEUTRON-INDUCED NUCLEAR FISSION SYMMETRY IN URANIUM-235 AT INDIVIDUAL RESONANCES H63-15381 12-23 VACUUM POLARIZATION AND RESONANCE CONTRIBUTIONS OF VIRTUAL VECTOR MESONS IN HIGH ENERGY ELECTRON-POSITRON COLLISIONS N63-15509 12-11 RESONANT TUBE TECHNIQUE FOR ACOUSTIC ADMITTANCE MEASUREMENT OF SOLIO PROPELLANT SURFACE COMBUSTION INSTABILITY N63-15579 12-28 REFRACTORY MATERIALS STUDY - BORIDE EFFUSION, MATRIX ISOLATION OF VAPORS OVER ZIRCONIUM ONIDE, RESONANCE LINE ABSORPTION, AND GRAPHITE EMISSIVITY M63-15728 12-23 FOLOGYER IN DIODE-LOADED RESONANT CIRCUITS -- FREQUENCY RESPONSE N63-15842 13-09 CONDUCTIVITY IN RESPONSE LOAD RECORDER TO MEASURE STRAIN FATIGUE OF POINT ON RESONANT STRUCTURE OF FLIGHT VEHICLE — ESTIMATION OF ACOUSTIC FATIGUE DAMAGE ASD-TDR-62-165, VOL. II NAMOSECOND STUDY - RESPONSE OF MICRONAVE TUBE RESONANT CAVITY TO FREQUENCY OF INPUT PULSE WITH GAUSSIAM ENVELOPE 2 85 7 8 9 1.89 3 N63-16019 34 13-09 INTERACTIONS OF COLLISION-PRODUCED PARTICLES COMPETITION AMONG RESONANCES H63-16231 GIANT RESONANCE DIPOLE TRANSITIONS IN NUCLEI -ELASTIC SCATTERING OF GAMMA RAYS, DIPOLE EXCITATIONS, DAMPING OF GIANT DIPOLE RESONANCE 14-25 TIME-DEPENDENT FISSION-PRODUCT - THERMAL AND RESONANCE ABSORPTION CROSS SECTIONS

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PULSE AND RESPIRATORY FLUCTUATIONS OF INTERCRANIAL PRESSURE IN HERMETIC CAVITY NASA-TT-F-162 N63-14432 10-16

MATE MORETREAS WAVE PROPREATED

WAPD-TH-333 N63-16951 14	-23 TIME EFFECT OF ELECTRONS N63-22913 23-24
ELECTRON SPIN RESONANCE STUDY OF PARTIALLY REDU VANADIUM PENTOXIDE SINGLE CRYSTALS	POSSIBILITY OF RESONANT INTERACTIONS OF THE MUON
VIBRATION MODES AND RESONANT VIBRATION OF BETA	-18 N63-22996 23-23 RESONANT STATES IN SCATTERING OF K MESONS &
CEPHEI AND BETA CANIS MAJORIS - STAR N63-17697 16-	-29 HYPERONS N63-23461 24-23
HEM RESONANCES IN ATOMS WHICH MARK COMERENT RESPONSE OF WHOLE ATOM - APPROXIMATE COMPUTATION NASA-CR-50345 N63-17966 16-	
FORTRAN LANGUAGE CODING SYSTEM FOR COMPUTING RESONANCE INTEGRALS OF ISOTOPE MIXTURES ANL-6709 N63-18245 17-	RESONANCE ABSORPTION OF NEUTRONS IN THORIUM
CALCULATION OF PARTICLE /RESONANCE/ MASS AND LIFETIME - QUANTUM MECHANICS N63-18258 17-	PHYSICS OF FAST REACTOR - NEUTRON SPECTRUM BY USING RESONANCE EFFECT N63-18199 16-23
GYROMAGNETIC AND FERROMAGNETIC RESONANCE - RELATIONSHIP OF SPECTROSCOPIC SPLITTING FACTOR MAGNETORECHANICAL RATIO USING PERTURBATION THEOR RADC-RAM-TM-63-5 17.	RESONANCES AND WAVES IN ONE- AND TWO-ION SPECIES TO PLASMAS SUBJECTED TO INTENSE MAGNETIC FIELDS RY NASA-CR-50855 N63-21998 22-24
AMPLIFICATION OF ELECTROMAGNETIC RADIATION IN 3- HILLIMETER WAVE RESONANT CAVITY FILLED WITH	AEET-NP-6 N63-23089 24-23
HYDROGEN CYANIDE GAS RADC-TDR-63-253 N63-18625 17-	-09 RESONATOR CF ELECTRON TUBE
WAVE PROPAGATION DIRECTION ON PLASMA RESONANCES - RESONANT FREQUENCY SENSITIVITY TO DEPARTURE FROM PURELY TRANSVERSE PROPAGATION NASA-TN-D-1875 17-	CF MAGNETROM INDUCTANCE AND CAPACITANCE DETERMINATIONS FOR CIRCULAR CUT QUARTZ PLATES FOR USE AS RESONATORS -24 IN FILTER CIRCUITS AND OSCILLATOR UNITS
PLASMA GENERATION AND MEASUREMENTS - LANGMUIR PROBES AND MICROWAVE RESONANT CAVITY FOR MERCURY ARC DISCHARGE - MICROWAVE SPECTRUM N63-18713 17-	RESONATORS - CONDITIONS FOR STABLE OPERATION -
FERROMAGNETIC RESONANCE AND RELAXATION IN YTTRIC IRON GARNET HDL-TR-1143 N63-18883 18-	SECOND HARMONIC GENERATION USING FERRIMAGNETIC
MATHEMATICAL ANALYSIS OF MIXING OF T EQUALS O AN	EFFICIENCY FREQUENCY DOUBLER
T EQUALS 1 COLLECTIVE STATES IN GIANT RESONANCE REGION OF DXYGEN-16 - WAVE FUNCTIONS N63-18989 18-	FILM THICKNESS CONTROL BY QUARTZ CRYSTAL RESONATOR 23 AID-T-63-86 N63-17902 16-15
RESONANT FREQUENCIES AND MODE SHAPES OF DOUBLE CONICAL SANDWICH DISCS WITH RADIAL SYMMETRY -	ELECTRON BEAM AND RADIO FREQUENCY CIRCUIT INTERACTION IN A RING-ROD RESONATOR
VIBRATION TESTING NASA-TN-D-1940 N63-19277 18-	
RESONANCE ABSORPTION IN NUCLEAR REACTORS - CALCULATION PROBLEMS	CHARACTERISTICS OF RUBY LASER MODES IN NOMINALLY PLANE PARALLEL RESONATOR N63-23545 24-25
EUR-360-1 N63-19812 19-	CYLINDRICAL THREE DIMENSIONAL RESONATORS WITH
POSSIBILITY OF ALDEHYDIC HYDROGEN BONDING BETWEE CYCLOTETRAMETHYLENETETRANITRAMINE /HMX/ AND DIMETHYLFORMAMIDE /OMF/ - RESONANCE IN DMF	GRATE PARTITION JPRS-21550 N63-23606 24-07
PA-TH-1217 N63-19914 19- ITERATION METHODS FOR PARTICLE RESONANCE	-07 RESPIRATION CF: ASPHYXIA CF: IMPLIANTION
CALCULATIONS POR PARTICLE RESONANCE 20-	
ELECTRON SPIN RESONANCE MEASUREMENTS DURING PYROLYSIS - CARBONIZATION OF ORGANIC COMPOUNDS 1 GRAPHITE	DEVICE FOR MEASUREMENT OF THORON IN THE BREATH
RESONANCE DAMPING FOR THIN, VIBRATING PLATES -	-07 UR-619 N63-11844 04-16 EFFECT OF DECREASED BARDMETRIC PRESSURE ON
CORRELATION OF DYNAMIC VISCOELASTICITY & THIM PLATE THEORIES IN MATERIALS MECHANICS ASD-TDR-63-411 N63-20305 20-	RESPIRATORY OXYGEN REQUIREMENTS AND BREATHING MODES IN MAN
ELECTROMAGNETIC PROPERTIES OF PARTICLES AND	EFFICIENCY OF DAYGEN MASKS DETERMINED BY MEASURING
RESONANCES ACCORDING TO UNITARY SYMMETRY THEORY NYO-10277 H63-20786 21-	NITROGEN CONTENT WITHIN THE MASK
SCATTERING RESONANCE ON FAST-WAVE STRUCTURE PIBMRI-1156-63 N63-21052 21-	
RECOMBINATION. TRAPPING & ELECTRON SPIN RESONANCE	AMRL-TDR-62-121 N63-13421 08-16

RECOMBINATION, TRAPPING & ELECTRON SPIN RESONANCE IN NORMAL AND IRRADIATED SILICON N63-22160 22-19

RESONANCE PROBE THEORY EXTENDED TO FINITE TRANSIT

-24 N -23

-23

-32

-24

-23

s

-23

-25

-23 Y -25

-09

-16 186 -16 OAL

TAL

-16

RESUSCITATION CARDIOPULNONARY RESUSCITATION - TEACHING PROGRAM

EXTRATERRESTRIAL MICROBIOLOGY - MARS, RESPIRATION AND PHOTOSYNTHESIS N63-14434 10-16	N63-13315 07-16
DECOMPRESSION SICKNESS - CIRCULATORY & RESPIRATORY CHANGES IN DOGS - EFFECT OF INTRAVENOUS BUBBLES	RETENTION EFFECT OF VARIOUS NETHODS OF TASK REHEARSAL UPON RETENTION OF TIME-SMARED TASK
SAM-TDR-63-7 N63-16127 13-16	AMRL-TDR-63-33 N63-17585 16-14
CARDIOPULHONARY RESPONSES TO HYPOTHERMIA AND OTHER ENVIRONMENTAL STRESSES - RESPIRATION ANAL-TOR-63-19 N63-16557 14-16	RETINA CF EYE SPECTRAL SENSITIVITY OF RETINA RECEIVERS IN
BIOLOGICAL OXIDATION IN MICROBIOLOGY - RESPIRATION AND OXIDATION STUDIES JPRS-20575 N63-19753 19-16	DICHROMATS JPRS-17054 N63-11683 04-16
STRESS TEST OF RELATIONSHIP BETWEEN APNEIC PAUSE IN RESPIRATION & DAYGEN DEFICIENCY	EFFECTS OF APPLIED OCULAR PRESSURE & POSITIVE ACCELERATION ON PHOTIC DRIVING IN MAN NADC-MA-6214 R63-12716 06-16
DVL-228 N63-19971 19-16 PHOTOSYNTHETIC ORGANISMS YIELDING RESPIRATORY	EVALUATION OF RETINAL PERFORMANCE BY MEASUREMENT OF VISUAL DISCRIMINATION RECOVERY TIME AFTER PHOTOSTRESS
GASES IN SPACE N63-20567 20-16	SAM-TOR-63-47 AMITATOR GIRROSSHI N63-23372 24-16
RESPIRATION AT PROLONGED EXPOSURE TO HIGH ALTITUDES WITHOUT HYPOXIA IN SPACE CABIN SIMULATOR SAM-TDR-63-31 N63-20651 20-16	RETRACTABLE WING WIND TUNNEL TESTS OF BLUNT REENTRY VEHICLE WITH RETRACTABLE WINGS NASA-TM-X-398 N63-13904 09-32
EFFECT OF RESISTANCE TO INSPIRATION ON BREATHING UNDER INCREASED PRESSURE - SPACE BIOLOGY N63-21524 22-16	RETRIEVAL SA DATA RETRIEVAL ELECTRICAL NETWORK FOR ASSOCIATIVE INFORMATION
HYPERTHERMIA EFFECT ON HEART RATE, ARTERIAL PRESSURE, RESPIRATION AND BLOOD CHEMISTRY IN	RETRIEVAL USING TREE PATTERN N63-13074 07-09
AMESTHETIZED DOGS SAN-TDR-63-34 R63-22078 22-16 ESPIRATORY SYSTEM	STORAGE, RETRIEVAL, AND UTILIZATION OF COMPUTER PROGRAMS FROM SERVICE ROUTINE LIBRARY RAW-TH-63-2 N63-13204 07-20
M CARDIDRESPIRATORY SYSTEM INPEDANCE RESPIROMETER - DESIGN AND CIRCUITRY AMRL-TOR-63-45 N63-18777 18-16	ADAPTIVE MODIFICATION OF LINEAR ASSOCIATIVE INFORMATION RETRIEVAL MAPPINGS - ELIMINATION OF IRRELEVANT DOCUMENTS USING MINUS VALUE INDEX TERMS
REGENERATION OF CARBOHYDRATES FROM CARBON DIOXIDE IN CLOSED ECOLOGICAL SYSTEM /RESPIRATORY SYSTEM/ AIAA PAPER-63-143 N63-19015 18-16	ACORN-23 N63-15956 13-20 MULTISTAGE SEARCH GAME - GAME THEORY APPLICABLE TO
SALMONELLA-INFECTED MICE EXPOSED TO ACUTE COLD ENVIRONMENT - RESPIRATORY SYSTEM AS SOURCE OF SECONDARY STAPHYLOCOCCUS INFECTION	MACHINE SEARCH PROGRAMMING - INFORMATION RETRIEVAL EUR-257.E N63-16825 14-20 RETROROCKET
AAL-TDR-62-49 N63-19455 19-16	HEAT TRANSFER TO A SPHERE WITH A RETROPOCKET
HUMAN RESPIRATORY TOLERANCE TO DECREASED ATMOSPHERIC PRESSURE - LUNG PRESSURE-VOLUME RELATIONSHIP SAM-TDR-63-62 N63-22828 23-14	NASA-TN-D-1535 02-13 ANALYSIS OF MA-7 AND MA-8 FLIGHT RECOVERY ZONE - SPLASH POINT, RETROROCKET YAW ANGLE AND ZONE OF
SPONSE SECRETARY OF PROJETY ASSESSMENT OF THE	UNCERTAINTY PHR-TH-63-3
S CONDITIONED RESPONSE S PREQUENCY RESPONSE HEMODYNAMIC RESPONSE HEMODYNAMIC RESPONSE	ERRORS PRODUCED DURING FIRING OF RETROROCKET ENGINE IN LUNAR LANDING TRAJECTORY NORT-62-21 N63-18456 17-29
NOOAL RESPONSE PHYSIOLOGICAL RESPONSE TRANSIENT RESPONSE	LUNAR ROUGH LANDING CAPSULE - RETROPOCKET & INSTRUMENTATION NASA-CR-51022 N63-20962 21-32
EPONSE BIAS WORD FREQUENCY EFFECT - MORD IDENTIFICATION UNDER HIGH NOISE CONDITIONS - BROWN AND RUBENSTEIN RESPONSE BIAS MODEL N63-14808 11-20	RETURN-TO-EARTH PHASE ASCENT FROM LUMAR SURFACE - SINGLE STAGE ROCKET IN RETURN TO EARTH PHASE OF SPACE MISSION
STRAINT DYNAMICS OF HUMAN RESTRAINT SYSTEMS - IMPACT STUDIES N63-12866 07-16	HASA-TH-D-1644 N63-16907 15-28 EARTH-HOON SYSTEM TRAJECTORY - RETURN TO EARTH PHASE OF SPACE HISSION - FREE RETURN FAON LUNAR
A 60-G AIRCREW RESTRAINT SYSTEM - IMPACT STUDIES N63-12867 .07-16	SPACE FLIGHT NASA-TN-D-1833 N63-16993 15-29
PERSONNEL RESTRAINT STUDIES FOR ADVANCED MANNED SPACE VEHICLES	REUSABLE SPACECRAFT REUSABLE MODULE FOR CARGO SPACECRAFT AIAA PAPER-63-271 N63-17808 16-30
AMRL-TDR-62-128 N63-13143 07-16	REVERSAL 84 20 - 1 2 - 1 8 2 - 1 2 - 1 8 2 - 1 2 - 1 8 2 - 1 2 - 1 8 2 - 1 2 - 1 8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
HURAN VIBRATION AND IMPACT ISOLATION WITH FULL LENGTH AIR BAG RESTRAINT SYSTEM 863-16695 14-14	S CONTROL REVERSAL THEIR MEANING HEAD MARTINE TO THE TOTAL OF THE TOTAL MARTINE TO THE TOTAL
PRE-EJECTION BODY RESTRAINT SYSTEM PROTECTING	FUEL-COOLED TURBING BLADES WITH RETURN-FLOW TYPE OF FINNED COOLANT PASSAGES NACA-RM-ESTROS
FPRC/MEMO186 N63-20043 19-16	REVAILED NO DESCRIPTION OF THE PROPERTY OF THE PROPERTY OF THE PARTY O

UNIFORM SECOND ORDER SOLUTION FOR SUPERSONIC FLOW OVER DELTA WING USING REVEXSED FLOW INTEGRAL EQUATIONS

SA CF CF

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KI

R

.

	CM-1034	N63-14921	11-03	RF-TR-63-3	N63-14263	10-20
	REVERSE FLOW INTEGRAL METHODS F SUPERSONIC FLOW THEORY	OR SECOND-OR	DER	AERODYNAMIC CHARACTERISTICS AT 5TH STAGE SCOUT REENTRY VEHICLE	HYPERSONIC SI	PEED OF
	CM-1033	N63-19454	19-11	24.4 - REYNOLDS NUMBER EFFECTS NASA-TN-D-1638		12-31
5	EVOLUTION, ROTATION SA BOOY OF REVOLUTION SA SATELLITE ROTATION		Litres Andres	EFFECT OF VARIATION IN REYNCLOS TEMPERATURE ON FOUR SURFACE PRE BLUNTED CONE	NUMBER AND	SURFACE
	EFFECT OF ROTATION OF EARTH ON . HYDROSPHERE			ASD-TDR-62-360	N63-16259	13-02
	A10-62-175	N63-10276	01-12	RH-2 HELICOPTER		
	MAGNETIC DRIVES FOR PRODUCING RIVACUUM APPARATUS FTD-TT-62-1143/16264		01-17	ARMY-NAVY INSTRUMENTATION PROGR SYSTEM RH-2 HELICOPTER FLIGHT T ANIP-6-30-62	EST	12-15
	CAVITATION SCALE AND THERMODYNA	MIC EFFECTS	IN	RHENTUM		
	STATIONARY AND ROTATING COMPONE MERCURY	N63-10530	01-11	SELF-DIFFUSION AND DIFFUSION OF SINGLE-CRYSTAL TUNGSTEN LA-2880	N63-15929	13-25
	RADIATION BY A UNIFORMLY ROTATION PIBAL-753	NG POINT CHA N63-10760		SURFACE IONIZATION OF CESIUM ON RHENIUM, MOLYBDENUM, AND TANTAL		
	TESTS TO DETERMINE FEASIBILITY OR THERMAL UPDRAFT TO CONTROL OF FROM SPILLED NITROGEN TETROXIDE	R DISPERSE F		POROUS MATERIAL AND SOLID SURFA		16-10
	SSD-TDR-62-177	M63-11134	03-26	HIGH TEMPERATURE METAL REACTION ELECTRON-EMISSION BEHAVIOR FOR		ON OF
	RADIAL DEFLECTION COMPONENTS OF SYMMETRIC MOTION OF A CYLINORIC	AL SHELL		CARBON IN TUNGSTEN & RHENIUM BHI-1649	N63-22904	23-18
	WAL-TR-850/13	N63-11443	03-33	RHENIUM ALLOY		1/1/45
	LIQUID ROCKET PROPULSION NASA-SP-19	N63-11509	03-27	RELATIONSHIP OF TWINNING TO BRI REFRACTORY METALS - POLYCRYSTAL RHENIUM ALLOY, NIOBIUM		NUH-
	HOLECULAR STRUCTURE AND SPECTROS TOKYO, 1962	SCOPY - SYMP N63-11580	04-07	RHENIUM COMPOUND	IDEATH LATOR	2522 42
	INJECTION TECHNIQUES FOR 200-POL OXYGEN ROCKET ENGINE	UND THRUST A		RHENIUM-III CHLORIDE VAPOR PRES HEAT AND ENTROPY OF SUBLIMATION METAL HALIDES AROD-2757-1	- TRANSITIO	N
	NACA-RN-E57H01	N63-12544	06-27	SHORESON AND INVESTIGATION AND SELECTIVE	N63-13435	06-07
	BIBLIOGRAPHY FOR HINDERED INTERMICROMAVE SPECTROSCOPY UCRL-10404	NAL ROTATION	AND 07-07	RHEDELECTRICAL SIMULATION LINEAR THEORY OF THIN JET AND C CALCULATION OF OUTFLOWS BY RHEO	AVITATION EF	FECTS
	CORIOLIS EFFECTS ON OPERATOR NO	VEMENTS IN		SIMULATION	N63-11328	03-11
	ROTATING SPACECRAFT	N63-13017	07-16	RHEOLOGY INCOMPRESSIBLE FLOW - A RHEOLOG	ICAL EQUATIO	N AND
	CALCULATION OF TORQUE REQUIRED TO A PRESCRIBED ROTATIONAL VELOCIAL TR-62-6		07-30	PROBLEMS IN STEADY FLOW COA-N-134	N63-11287	03-11
	RADAR EXPLORATION OF VENUS - DEF ASTRONOMICAL UNIT AND VENUS ROTA JPL-TR-32-280	RIVATION OF TION REFLECT	THE TION 08-08	RHEOLOGICAL BEHAVIOR OF AEROSOL SEDIMENTATION & VISCOSITY STABL	N63-15234	11-11
	AERODYNAMIC DAMPING HOMENTS OF	ONES WITH		MICROSTRUCTURE TESTING OF RESIN PROPERTIES AND RHEOLOGICAL BEHA	VIOR	
	DIFFERENT CENTERS OF ROTATION NASA-TN-0-1768	N63-14029	09-02	ONERA-TN-71	N63-15739	12-17
	ROTATIONAL EXCITATION AND HOMEN'S SECTIONS FOR ELECTRONS IN HYDROG			RHEOLOGY OF LUBRICANT IN CONTAC CONTACT SYSTEM	T ZONE OF RO	
	FROM TRANSPORT COEFFICIENTS FINE STRUCTURE OF NITRIC OXIDE (N63-14233	10-23	CONTRIBUTION TO THE LINEARIZED AND CAVITATIONS - CALCULATION OR RHEOELECTRIC ANALOGY		IN JETS 21-11
	TEMPERATURE DETERMINATION NOLTR-62-65	N63-14492	10-07	RHODIUM	NOW HEALTH CHES	21 57 50
	HUMAN PERFORMANCE IN WEIGHTLESS	-977 TIAT	ACT TO SERVICE	CHARACTERISTICS OF TRANSITION E SOLUTION - CHEMICAL ANALYSIS OF	LEMENTS IN RHODIUM, PA	LLADIUM
	ROTATION TECHNIQUES AMRL-TDR-62-129	N63-14896	11-29	AND RUTHENIUM AFCRL-63-456	N63-16977	14-07
E	VOLUTIONS PER MINUTE			RHOOTUM 102		
	DIGITAL INDICATOR FOR REVOLUTION MARBORE II ENGINE DFL-184	N63-14352	11420 11	STRATOSPHERIC RESULTS OF RHODIU TRACER EXPERIMENT AFCRL-62-460/1/	M-102 HIGH A	028050
LEY	YNOLDS NUMBER			RIGHT SHEET CONTENT WITHIN THE MAS	STATE OF MINE	>11日間日
	REYNOLDS NUMBER EFFECT ON INVISO DISTRIBUTIONS & SHOCK SHAPES OF	CYLINDRICAL	BODIES	LOCALIZED DIE FORGING OF RIBBED ALUMINUM ALLOY PANELS	BR BAS SIA M	
	WITH DIFFERENT NOSE SHAPES & DRA NASA-TR-R-182	M63-23686		AID-S-63-19		
E	PHOLDS NUMBER EFFECT			RIBBON PARACHUTE DROGUE RIBBON PARACHUTE TESTS A	T HIGH ALTIT	UDES
×	REYNOLDS NUMBER CALCULATION AS F NUMBER, STAGNATION PRESSURE AND	UNCTION OF	MACH	AND LOW SUPERSONIC SPEEDS NASA-TM-X-448		
	TEMPERATURE - TABLES	10 F 15 (200 H)		MANAGEMENT - POSTATIONS	OPININGNANY A	CARDI

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0 -07 5 -11 0

-11 CAL -17 -17 TS -11

UN -07 DE 12

17

04

AIBONUCLEIC ACID	REINFORCING PLATES ON BOTH SIDES N63-14319 10-33
CF NUCLEOSIDE CF NUCLEOTIDE RADIOPROTECTIVE AGENTS - DEPOLYMERIZED YEAST RIBONUCLEIC ACID EFFECT ON RADIATED HUMAN CELLS IN	FINITE TWISTING AND EXPANSION OF HOLE IN RIGID/ PLASTIC PLATE UNDER PLANE STRESS N63-14464 10-33
TISSUE CULTURE SAM-TDR-62-85 N63-13749 08-16	TORSIONAL RIGIDITY OF STRUCTURAL BEAM -
RADIOPROTECTIVE AGENTS - CORRELATION OF RNA CONTENT AND DEGREE OF RADIORESISTANCE OF CELLS IN	TEAM-246
VITRO - RADIOBIOLOGY SAN-TDR-63-17 N63-15885 13-16	CUTOFF RIGIDITY MEASUREMENT - SOLAR PROTONS AND ALPHA PARTICLES FROM JULY 10, 1959 SOLAR FLARE CR-48 N63-17330 15-20
PROTEIN SYNTHESIS, RIBONUCLEIC ACID, & GENETICS JPRS-21050 N63-22296 23-16	USE AND CALIBRATION OF INSTRUMENT FOR MEASURING TORSIONAL RIGIDITY OF STIFFENED PLATES
RIBONUCLEIC ACID IN METABOLIC POOL, RNA OF ESCHERICHIA, PROTEIN SYNTHESIS, & RNA RADIDACTIVITY - BIOPHYSICS NA3-23543 24-16	MASA-TN-D-2007 N63-18669 17-15 BIBLIOGRAPHY OF STRUCTURAL MODELING FOR
EICHARDSON NUMBER	NASA-CR-51762 N63-22562 23-33
RICHARDSON-CRITERION FOR PREDICTING CLOUD-FREE TURBULENCE USING FLIGHT MEASUREMENTS FFM-58 N63-20915 21-11	AING SA REINFORCEMENT RING CF CIRCLE
RICIAM FADING ERROR PROBABILITIES FOR RICIAM FADING MULTICHAMMEL	CF LOOP BUCKLING OF RING-STIFFENED CYLINDERS UNDER A PURE
RECEPTION OF BINARY AND N-ARY SIGNALS NASA-CR-51853 N63-22895 23-08	BENDING MOMENT AND A NOMUNIFORM TEMPERATURE DISTRIBUTION NASA-TH-D-1513 N69-10179 01-33
RIERARM SURFACE CF COMPLEX VARIABLE	MODAL CHARACTERISTICS OF NONUNIFORM THIN CIRCULAR
L AND K KERNELS ON ARBITRARY RIEMANN SURFACE ARDD-1517-44 N63-12127 05-20	RINGS JPL-TR-32-252, ADD. 1 N63-10246 01-20
GLOBAL PROPERTY OF MINIMAL SURFACES - SURFACES OF	MEASUREMENT OF DECAY OF TRAPPED-FLUX IN SUPER-
HIGH CONNECTIVITY - RIEMANN SURFACE N63-15691 12-20	CONDUCTING RING UNDER BOMBARDMENT OF ALPHA PARTICLES FROM POLONIUM-210 LNF-62-85 N63-12574 06-23
ANALYTIC MAPPINGS INTO RIEMANN SURFACE AROD-1517-52 N63-16947 14-20	GIVE IN EXPANSION OF CORRUGATED TUBES T1L/T-5032 N63-14640 10-33
AIFT PROJECT S REACTOR IN-FLIGHT TEST /RIFT/ PROJECT	HOTTON OF BLACKS BING IN COANTS FLOW MACHETIC
RIGID BODY IMPACT OF RIGID AND FLEXIBLE BODIES ON SURFACE	FIELD - ACCELERATOR NASA-TR-R-121 N63-14873 11-24
OF COMPRESSIBLE FLUID - AERODYNAMIC ANALOGY CU-1-63-ONR-266/86/-CE N63-12307 05-11	MOTION OF PLASMA RING THROUGH VARIOUS TRAVELING MAGNETIC-WAVE PLASMA ACCELERATORS MASA-TH-D-1636 12-24
ROTATING BODY VACUUM MOTION APPROXIMATION - RIGID SYMMETRICAL BODY WITH SPIN RATE AND INERTIA VARIANCES	MOTION EQUATIONS FOR VIBRATION OF THIN RINGS JPL-TR-32-261 N63-16442 14-33
MASA-TR-R-115 M63-14761 11-02 ELASTIC BEHAVIOR OF NONADHESIVE RUBBER BINDER	USE OF RINGS AS SHOCK GENERATORS IN HYPERSONIC FLOW
CLOSE-PACKED WITH RIGID SPHERICAL PARTICULATE INCLUSIONS - MATHEMATICAL MODEL FOR SIMPLE TENSION	PIBAL-612 463-16890 14-13
GALCIT-SM-63-2 N63-15932 13-33 MATHEMATICAL ANALYSIS OF MOTION EQUATIONS FOR	HYPERSONIC RING SHOCK GEMERATORS - HEAT TRANSFER, PRESSURE DISTRIBUTION, & LIFT-DRAG RATIO PIBAL-460 M63-21374 22-13
HOMENTS AND MOMENTS OF MOMENTUM FOR SIX DEGREES OF FREEDOM OF RIGID BODY	CONTRACTOR ANALYSIS OF THE ONTING BLACKA BINGS
RS-TR-62-4 M63-19850 19-23 AIGID ROTOR	IN DETONABLE GAS MIXTURES N63-23777 24-24
DYNAMIC LOADS IN RIGID HELICOPTER ROTOR FROM FULL— SCALE WIND-TUNNEL TESTS N63-21824 22-04	RING STRUCTURE ANALYSIS OF VARIABLE GEOMETRY SPACE ERECTABLE STRUCTURES CONCEPT BASED ON RING-SUPPORTED.
AEROELASTICITY OF ARTICULATED AND RIGID HELICOPTER ROTORS IN HIGH-SPEED FLIGHT N63-21825 22-04	INTERLACED ARCH PRINCIPLES NSL-62-228 N63-12355 06-34
AIGID WING PRESSURE DISTRIBUTIONS ON 3 RIGID WINGS SIMULATING	STUB-SUPPORTED RING AND BAR TRAVELING WAVE TUBE N63-14415 10-23
PARAMINGS WITH VARIED CANDPY CURVATURE AND LEADING EDGE SWEEP AT MACH 2.29 TO 4.65 MASA-TH-D-1618 N63-14252 10-03	FAILURE OF METAL RING STRUCTURES AT HIGH STRAIN RATE - UNIFORM ELONGATION MAI-TR-111-2/20-1 MA3-15383 12-18
RIGIDITY TABLE OF KINETIC ENERGY VS. MAGNETIC RIGIDITY FOR	WAL-TR-111.2/20-1 N63-15383 12-18 SYNTHESIZING HEAT RESISTANT POLYMERS HAVING RINGS
CECTRONS UCRL-10494 N63-12941 07-07	IN CHAIM RAE-TRANS-1026 Ne3-17025. 15-07
COMPUTING COSMIC RAY CUTOFF RIGIDITY FOR SEVERAL GEOMAGNETIC FIELD MODELS N63-13970 09-12	RIGMETER TIME VARIATIONS OF POLAR CAP ABSORPTION ASSOCIATED WITH SOLAR COSMIC RAY BONDARDMENT - RIGMETER
EFFECT OF GLUELINE RIGIDITY ON FATIGUE STRENGTH OF 2024-T ALUMINUM ALLDY WITH ADMESIVE BONDED	UNCESTIGATIONS UAG-R127

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AIOMETER RECORDS OF 30 MC/S - COSMIC NOISE AT HUANCAYO, PERU, JUNE 1961 TO SEPTEMBER 1962 N63-13426 08-08	PRECAMBRIAN AND PALAEOZOIC AGES IN CZECHOSLOVAKIA AND STABILITY OF GEOMAGNETIC FIELDS N63-18764 17-12		
TRANSISTORIZED RIGHETER ABSORPTION MEASURING	CORRELATION AND CHRONOLOGY OF DRE DEPOSITS AND VOLCANIC ROCKS N63-19801 19-17		
AND ANTENNA SYSTEM AFCRL-63-177 N63-21394 22-12	COUPLING BETHEEN EXPLOSIVES AND ROCKS NAVWEPS-7949 N63-20377 26-19		
RIVET CF PASTENER	HUGONIOT EQUATION OF STATE DATA OBTAINED FOR ROCKS		
RIVET SQUEEZING FORCE REDUCTION - MONEL & A-286 STANDARD RIVETS A064 N63-21874 22-17	BY SHOCK WAVE TECHNIQUE AFCRL-63-662 N63-20783 21-14		
THE RESIDENCE THE THE PARTY OF THE PARTY HAVE AND THE PARTY OF THE PARTY HAVE NOT THE PARTY OF THE PARTY HAVE NOT THE PARTY HAV	DETERMINATION OF ROCK CONDUCTIVITY FROM VERY LOW		
OBERTSHAW-FULTON REGULATOR PHYSIOLOGICAL ASSESSMENT OF ROBERTSHAW-FULTON REGULATOR TYPE 20004	FREQUENCY WAVE PROPAGATION MEASUREMENTS AFCRL-63-383 N63-23581 24-0		
FPRC/NEMO-175 N63-11773 04-16	SA AEROBEE HI ROCKET		
ROBERTSHAM-FULTON TYPE 20004 REGULATOR PERFORMANCE IN PROVIDING AUTOMATIC SAFETY PRESSURE IN PRESSURE ECONOMIZER SYSTEM	SA AEROBEE ROCKET SA AGENA B RANGER PROGRAM		
FPRC/MEMO185 N63-20076 20-17	SA AGENA RUCKET SA BLACK BRANT III RUCKET SA BLACK BRANT V RUCKET		
OBIN BALLOON EFFECT OF VERTICAL AIR MOTION ON ATMOSPHERIC	SA BLACK KNIGHT ROCKET SA BLUE SCOUT JR ROCKET SA BLUE SCOUT ROCKET		
DENSITY DETERMINATION FROM ROBIN BALLOON FLIGHT RM-3687-PR N63-19509 19-21	SA FXOS SOUNDING ROCKET		
MESOPHERIC WIND MEASUREMENT FROM ROCKET SOUNDING	SA HONEST JOHN ROCKET		
WITH ROBIN BALLOON AFCRL-63-836 N63-22469 23-21	SA HYBRID ROCKET		
AND AND STATE OF THE STATE OF T	SA METEOROLOGICAL ROCKET		
OCK CLAY	on meaning manner		
CF LIMESTONE CONTRACTOR AND AND CONTRACTOR OF THE CONTRACTOR OF TH	SA NIKE APACHE ROCKET SA NIKE CAJUN ROCKET SA NIKE JAVELIN ROCKET SA NIKE POCKET		
CF QUARTZ CF SANOSTONE	SA HIRE ROOKE!		
MEASURING ROCK AND SOIL STRENGTH PROPERTIES AT THE	SA SINGLE-STAGE ROCKET		
SURFACE OF THE MOON JPL-TR-32-374 N63-12922 07-29	SA SKYLARK ROCKET SA SOUNDING ROCKET		
GEOLOGY AND GEOPHYSICS APPLIED TO RADIO PROPAGATION THROUGH ROCK STRATIFICATION OF EARTHS	SA STRUNGARN ROCKET SA VENUS FLY TRAP ROCKET CF MISSILE		
CRUST	CF PROPULSION ROCKETS IN NASA SPACE PROGRAM		
AFCRL-63-40 N63-15106 11-08	N63-10232 01-		
TEKTITES, GLASSES, AND ROCKS N63-15803 13-05	USE OF MAGNETIC AND SOLAR ENERGY, AND PROTECTION FROM METEORS, BASED ON TSANDERS SPACE FLIGHT WOR		
ANALYSIS OF ROCKS AND MINERALS BY REFLECTED INFRARED RADIATION N63-16189 13-25	AID-62-179 N63-10408 01- SPRAYABLE, STRIPPABLE, PROTECTIVE COATING FOR		
MEASUREMENT OF DETONATION WAVE COUPLING BETWEEN COLUMNS OF EXPLOSIVE AND ARTIFICIAL ROCKS -	AIRCRAFT, ROCKETS AND MISSILES N63-10474 01-1		
MOMENTUM OF SHOCK WAVES IN MATERIALS NAVWEPS-8055 N63-16320 13-23	ROCKETS AND SATELLITES - DATA CATALOG N63-11495 03-		
STRENGTH AND DUCTILITY OF ROCKS UNDER CONFINING PRESSURE - STRUCTURAL DYNAMICS	NASA-UNIVERSITY CONFERENCE ON SPACE - ROCKETS.		
N63-16621 14-33	GEOPHYSICS, ASTRONOMY, CELESTIAL MECHANICS AND BIOASTRONAUTICS - VOL I		
EVIDENCE OF GRANITIC ROCKS IN LUNAR CRUST FROM MORPHOLOGY OF THE LUNAR SURFACE - TEXTITES N63-17108 15-05	MASA-SP-11, VOL. 1 N63-11501 03-1 SINGLE STATION DOPPLER-INTERFEROMETER ROCKET		
N63-17108 15-05 LUNAR SURFACE HIGH FREQUENCY SPUTTERING YIELD RELATED TO ION BOMBARDMENT DATA FOR POMDERED ROCK	TRACKING SYSTEM NASA-TN-D-1344 N63-12488 06-2		
NASA-CR-50229 N63-17204 15-07	EXPERIMENTAL STUDY OF BALLISTIC-MISSILE BASE HEATING MITH OPERATING ROCKET		
UNDERGROUND RADIO COMMUNICATIONS THROUGH DEEP ROCK STRATA AFCRL-63-60 N63-17589 16-08	NACA-RM-E58G17 N63-12691 06- FLUID AMPLIFICATION SYMPOSIUM - BISTABLE ELEMENT.		
GEOLOGY - HUGONOIT DATA FOR POROUS SOIL AND POROUS AND NON-POROUS ROCK	TMO-DIMENSIONAL JETS, FLOW VISUALIZATION, PROPORTIONAL CONTROL, ROCKET THRUST VECTORING N63-13360 08-		
SC-4903/RR/ N63-17996 16-12	ROCKET THRUST VECTORING - FLUID AMPLIFIER		
COLLECTION OF GEOPHYSICAL HORKS, 1961 - ANOMALY, GRAVITATIONAL EFFECT, SEISMIC WAVE SHOCK, NOMO-	ELECTRICAL AND FIRE CONTROL SYSTEMS OF XM-3		
GRAM, ROCK STUDIES N63-18752 17-12 ELECTRONIC APPARATUS FOR PRECISE MEASUREMENT OF	ROCKET MEAPON SYSTEM FOR UH-18 HELICOPTER RG-TR-62-6 N63-13411 08-		
ELASTIC PARAMETER OF ROCKS - SEISMIC MAVES - KINEMATICS AND DYNAMICS N63-18760 17-12	PRECISE TRAJECTORY CONTROL AND GUIDANCE OF ROCKET JPRS-12784 N63-13826 09-3		
PALAEOMAGNETIC CHARACTERISTICS OF ROCKS OF	Seeme Self-mon Hill Indox Spelfson 1-420		

KEA

7-12

9-12

0-19 DOKS

1-19

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252

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INK I-29

-19

-12

-29

-22

-21

T.

-11

-11

-01

ETS -30

EXPERIMENTAL EFFECT OF GAS FLOW TRANSIENTS ON HEAT EMISSION OF BURNING LIQUID DROPS IN A ROCKET	ROCKET CONFIGURATION AT MACH 10 NACA-RM-L58G03 N63-20530 20-13
COMBUSTOR MASA-TN-D-1576 N63-13951 09-26	ELECTRONIC MULTISYSTEM TEST EQUIPMENT FOR MISSILE AND ROCKET MEAPON SYSTEMS
TELEMETRY COMPONENTS PERFORMANCE IN BLACK MANT III ROCKET DYNAMIC FIRINGS - TRANSISTOR	CR-63-547-43 H63-20599 20-09
TRANSMITTER & ANTENNAS ERB-626 N63-14798 11-08	SPACE SIMULATOR TEST OF MARINER SPACECRAFT AUTOPILOT SYSTEMS WITH ROCKET HOTOR FIRING
PACE SCIENCE - LAUNCH VEHICLE FIRING HISTORIES	AIAA PAPER-63-343
ACE SCIENCE - SOLID PROPELLANT ROCKET CLUSTERS	RELEVANT TO ION ROCKET PROPULSION - SPUTTERING YIELD RATES
R SATELLITE CARRIER SYSTEMS N63-15984 13-31	ARL-63-125 N63-20912 21-27 ESTABLISHING DESIGN CRITERIA FOR SPACE PROPULSION
SCENT FROM LUNAR SURFACE - SINGLE STAGE ROCKET IN ETURN TO EARTH PHASE OF SPACE MISSION ASA-TH-D-1644 N63-16987 15-28	SYSTEM BY EXPOSING ROCKET MATERIALS AND STRUCTURES TO SIMULATED SPACE ENVIRONMENTS RTD-TDR-63-1050. VOL. 1 N63-20999 21-29
LUID INJECTION & THRUST VECTOR CONTROL FOR DCKETS - PERFORMANCE PREDICTION FOR GAS AND	
N63-17100 15-20	MASA-TN-D-1737 N63-22162 23-20
NIDDLE ULTRAVIOLET PHOTOELECTRIC DETECTION QUIPMENT FOR ROCKETS N63-17111 15-23	IMPROVED UNIFORMITY AND STRENGTH UTILIZATION IN PREIMPREGNATED ROVING FOR FILAMENT-WOUND ROCKET CHAMBERS - POLARIS MISSILE N63-22069 24-17
PTIMIZING VERTICAL ROCKET THRUST AT LARGE JET NICH NUMBER MHEN DRAG IS FUNCTION OF VELOCITY RL-1194 N63-17441 15-20	SIMULATION FACILITY FOR THE DIGITAL THPACT PREDICTOR - FLIGHT SAFETY REQUIREMENTS FOR
ORBITAL MANEUVERS WITH FINITE THRUST ROCKETS	PAD-72
EROELASTICITY - SCALE MODEL TESTING FACILITIES -	EFFECT OF PENETRANTS ON GRAPHITE NOZZLE THROATS UNDER ROCKET MOTOR FIRING CONDITIONS ABL/X-105 N63-23743 24-19
MALL ROCKET LIFT DEVICE FOR MANNED SPACECRAFT -	ABORT TEST OF APOLLO SPACECRAFT LAUNCH ESCAPE SYSTEM N63-23754 24-30
ARAGLIDER RECOM-TR-63-12 N63-17941 16-27	ROCKET AIRCRAFT WING-AILERON FLUTTER USING GROUND-LAUNCHED ROCKET
THOSPHERIC QUANTITIES IN ROCKET TECHNOLOGY - NAMNIC PRESSURE, DRAG, LIFT, AXIAL FORCES 854-TN-D-1830 N69-18161 16-27	MODEL ARC-CP-627 N63-21897 22-33
IDLOGICAL INVESTIGATIONS OF ANIMALS IN HIGH LTITUDE ROCKETS AND SATELLITES N63-18438 17-16	SA H-57 ROCKET ENGINE
OT KEROSENE FLASHING IN VERTICAL TUBE — INVLATION OF FLOW PATTERN OF PHASE-CHANGE OCKET CONBUSTOR N63-18589 17-11	SA SOLID PROPELLANT ROCKET ENGINE SA X248 ROCKET ENGINE SA X259 ROCKET ENGINE CF PROPULSION SYSTEM
HEORETICAL MODELS AND EXPERIMENTAL ROCKET OMBUSTORS FOR STUDY OF COMBUSTION PROCESS	CHEMICAL ROCKET PROPULSION FOR SPACE WGL PAPER-53 N63-10048 01-27
NSTABILITY N63-18591 17-27	USING A POROUS-TUNGSTEN ENITTER
DXICITY AND SAFETY HAZARDS OF SOME ROCKET ROPELLANTS N63-18949 18-16	NASA-TN-D-1321 N63-10327 01-27
ITCH BINDER FOR GRAPHITE-BASED FUELS AND ROCKET ROPELLANTS	PLASMA ENGINES - ION AND PHOTON ROCKET ENGINES FTD-TT-61-464/18284 N63-10341 01-27
A-3985 N63-19135 18-07	ROCKET ENGINE SYSTEM RELIABILITY M63-10493 01-27
DEPLOYMENT, DYNAMIC STABILITY, AND COMTROL HARACTERISTICS OF PARAMING-ROCKET BOOSTER MODEL SING RADIO-CONTROL FREE-FLIGHT TECHNIQUE NSA-TN-D-1932 N63-19607 19-31	NOISE MEASUREMENTS DURING CAPTIVE AND LAUNCH FIRINGS OF A LARGE ROCKEY-POWERED VEHTCLE NASA-TN-D-1502 N63-10650 02-27
HERMODYNAMIC PROPERTIES OF ROCKET COMBUSTION RODUCTS - BERYLLIUM FLUORIDE, BERYLLIUM HYDROXIDE UND BERYLLIUM CHLORIDE	SPACE CHARGE-FLOW THEORY AND ELECTRODE DESIGN FOR ELECTROSTATIC ROCKET ENGINES HASA-TN-D-1461 N63-10735 02-27
HAZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ	CREEP BUCKLING OF SPHERICAL SHELLS
REDICTION OF UNGUIDED ROCKET IMPACT - BALLISTIC MOD MOTION EQUATIONS NA3-19892 19-30	N63-10850 02-33 NONLINEAR TRANSVERSE AXISYMMETRIC VIBRATIONS OF SHALLOW SPHERICAL SHELLS
OCKET OPTIMIZATION PROBLEMS - FLIGHT MECHANICS	SHALLOW SPHERICAL SHELLS N63-10053 02-33 ION ROCKEY, ELECTRON BOMBARDMENT WITH ALTERNATING- CURRENT SUPPLIES
ND FLIGHT REGULATION M63-20227 20-31 DEKET PROPELLANT PERFORMANCE FACTORS	MASA-TN-D-1457 M63-10881 02-27
N63-20500 20-26 REE FLIGHT AERODYNAMIC HEAT TRANSFER TO GLIDE-	PANEL ON SCIENCE & TECHNOLOGY - ROCKET ENGINES, RADIO ASTRONOMY, GEODETIC SATELLITES - CONGRESSIONAL HEARINGS W03-11723 04-01

MODEL MA-5 ROCKET ENGINE PROPULSION SYSTEM R-2850AS N63-11759 04-27	PROPELLANT AND ENGINE DEVELOPMENT, RIFT PROJECT, AND NERVA ENGINE N63-17227 15-27
ROCKET ENGINE ANALYZER & DECISION INSTRUMENTATION /READI/ - VOL I. SUMMARY CA-4251-0160, VOL. I N63-12168 05-17	FABRICATION METHODS - THERMAL AND HYDROSTATIC TESTING OF STAINLESS STEEL - TITANTUM LIQUID HYDROGEN FUEL TANKS FOR ROCKET ENGINES AFFTC-TR-60-43, VOL. IV N63-17606 16-34
ROCKET ENGINE ANALYZER & DECISION INSTRUMENTATION /READI/ - VOL 11, APPENDICES GA-4251-0160, VOL. 11 N63-12169 05-17	SCALE HODEL TESTING OF 90-DEG TURN EJECTOR SYSTEMS FOR ROCKET ENGINE SIMULATION AIAA PAPER-63-174 N63-17802 16-02
VISUALIZATION OF COMBUSTION OF SOLID GRAIN PROPELLANT INSIDE ROCKET ENGINE N63-12486 06-26	LUBRICANTS FOR SUPERSONIC JET AND ROCKET ENGINES N63-17830 16-17
ANALYSIS OF AIR-TURBOROCKET ENGINE PERFORMANCE INCLUDING EFFECTS OF COMPONENT CHANGES NACA-RM-E55H04A N63-12524 06-27	GASEOUS PHASE OF DETONATION - RELATION TO ROCKET PROPULSION AIAA PAPER-63-227 N63-17921 16-27
ROCKET ENGINE STARTING WITH MIXED OXIDES OF MITROGEN AND LIQUID AMMONIA BY FLOW-LINE ADDITIVES NACA-RM-E53F05 N63-12536 06-27	ROCKET HEAT TRANSFER MEASUREMENT - SLUG MASS CALORIMETER - CONVECTION AND RADIANT HEAT RATES AEDC-TDR-63-93 N63-18257 17-13
LOW-TEMPERATURE CHEMICAL STARTING OF COMBINED JP-4 NITRIC ACID PROPELLANT FOR LOW-THRUST ROCKET ENGINE USING THREE-FLUID PROPELLANT VALVE	MATHEMATICAL AND EXPERIMENTAL MODEL FOR ROTATING DETONATION WAVE ROCKET ENGINE N63-18346 17-27
NACA-RM-E55E04 N63-12540 06-27 INJECTION TECHNIQUES FOR 200-POUND THRUST AMMONIA- OXYGEN ROCKET ENGINE	MATHEMATICAL MODEL AND TESTS OF ROTATION DETONATION WAVE ROCKET ENGINE USING HYDROGEN AND DXYGEN AS PROPELLANTS N63-18807 18-27
NACA-RM-E57H01 N63-12544 06-27 LUBRICATION CHARACTERISTICS OF BEARING STEEL IN LIQUID DAYGEN IN ROCKET ENGINES	STANDARDIZED THERMODYNAMIC DATA AND COMPUTER PROGRAM FOR ROCKET PERFORMANCE PREDICTION NOLTR-62-211 N63-19106 18-23
NASA-TN-D-1580 N63-12591 06-17 REFRACTORY MATERIALS FOR ADVANCED ROCKET ENGINE COMPONENTS	ZERO-GRAVITY POSITIVE EXPULSION TECHNIQUES - METALLIC DEVICES FOR PROPELLANT TRANSFER NASA-CR-50774 N63-19964 19-04
R-3350-3 N63-12944 07-18 ROCKET ENGINE RECORD. X-15 AIRCRAFT, SPEED AND	LIQUID PROPELLANTS AND ROCKET ENGINE TECHNOLOGY MG1-2-1962 N63-21007 21-26
ALTITUDE OF RESEARCH AIRCRAFT N63-13571 08-04 INJECTOR EVALUATION IN 2400-POUND-THRUST ROCKET	THEORY OF ROTATING DETONATION MAVE ROCKET MOTOR N63-21156 21-27
ENGINE USING LIQUID DXYGEN AND LIQUID AMMONIA NASA-NEMD-12-11-58E N63-13887 D9-27	ROTATING DETONATION WAVE ROCKET ENGINE N63-21191 21-27
FOURTH SATURN I /SA-4/ LAUNCHING TO TEST ENGINE-OUT CAPABILITY OF SATURN BOOSTER M63-14343 10-32	ROCKET AND JET PROPULSION THEORIES, MECHANICS OF HEAT TRANSFER, ROCKET TRAJECTORIES, AND HYPERSONIC FLOW N63-21626 22-27
APPLICATION AND CALIBRATION OF CARRIER FREQUENCY SYSTEMS AND INDUCTIVE MEASURING INSTRUMENTS IN A MULTICHANNEL UNIT	CHLORINE TRIFLUORIDE-HYDRAZINE LIQUID PROPELLANT AND ROCKET MOTOR DEVELOPMENT NASA-CR-51004 N63-21722 22-26
DFL-185 N63-14370 10-27 TURBULENT BOUNDARY LAYER COMBUSTION IN HYBRID ROCKET ENGINE	SECOND STAGE ENGINE CHARACTERISTICS EFFECT ON TRAJECTORY SHAPE, WEIGHT AT CUTOFF AND CONTROL HISTORY OF CIRCULAR ORBITING VEHICLE
WSS/CI PAPER-62-24 N63-14904 11-26 VALVE TECHNOLOGY FOR SPACECRAFT ROCKET ENGINES N63-15032 11-17	NASA-TM-X-50407 N63-21728 22-22 GASEOUS-FILM COOLING OF ROCKET COMBUSTION CHAMBER NASA-TM-0-1988 N63-21895 22-27
HIGH ALTITUDE BASE HEATING OF 4-ENGINE ROCKEY	DETONATION IN ROTATING DETONATION WAVE ROCKET ENGINE - QUENCHING, CONTINUOUS BURNING, AND MASS
CAL-HH-1510-Y-/1/ N63-15429 12-26 ALUMINUM BURNING IN SOLID PROPELLANT FOR ROCKET ENGINES - COMBUSTION INSTABILITY	FLOW N63-22401 23-27 COMBUSTION PRESSURE OSCILLATIONS IN ROCKET MOTORS BURNING PRENIXED OR UNNIXED GASEOUS PROPELLANTS
N63-15588 12-26 NONLINEAR ASPECTS OF GAS AND WAVE DYNAMICS IN	F-63-2 N63-22439 23-24 VARIABLE THRUST ROCKET ENGINE WITH CONSTANT
SOLID PROPELLANT ROCKET ENGINES - COMBUSTION 1857ABILITY K63-15592 12-26	COMBUSTION CHAMBER PRESSURE N63-23151 24-27 ROCKET ENGINE DESIGN
ROCKET PROPULSION SYSTEM - NONEQUILIBRIUM FLOW IN ROCKET MOZZLES TDR-930/2230-06/TR-1 N63-16134 13-02	ENGINE DESIGN EFFECT ON REMOTE HANDLING OF NUCLEAR ROCKET ENGINES M63-22321 23-27 ROCKET EXHAUST
ROCKET ENGINE ABLATIVE MATERIAL PERFORMANCE AFTER POST-RUM COOLING AT SIMULATED ALTITUDE PRESSURES NASA-TN-D-1726 N63-16688 14-13	PRESSURE DISTRIBUTION ON FLAT PLATE BY SUPERSURIL ROCKET JETS EXHAUSTING INTO FREE STREAM FLOM NASA-TM-D-1507 N63-10206 01-11
ROCKET ENGINE EXHAUST SYSTEMS - COMBUSTION PRODUCTS QR-7414-7 N63-16870 14-26	FLOW SEPARATION IN A CONTOUR NOZZLE JPL-TR-32-317 N63-10710 02-11
NUCLEAR PROPULSION PROGRESS - KINI-B REACTOR,	HEAT TRANSFER TO A SPHERE WITH A RETROPOCKET EXHAUSTING INTO A FREESTREAM

T. 5-27

6-34

6-02 ES 6-17 ET 6-27

-13 16 1-27

1-27

-23

-26 -27 -27

r -26

-22 R -27

AR 27

C 11 11

NASA-TN-0-1535 N63-10733 02-13	LIQUID PROPELLANT SLOSHING DURING ROCKET FLIGHT MTP-PEVE-P-62-6
CHEMILUMINESCENT REACTIONS OF MISSILE EXHAUST GASES WITH AMBIENT ATMOSPHERIC GASES GCA-TR-62-25-A N63-11850 04-07	OPTIMAL ROCKET FLIGHT IN GRAVITATION FIELD TO AIAA PAPER-63-221 N63-17799 16-20
THERMODYNAMIC PROPERTIES OF ROCKET ENGINE EXHAUST - BERYLLIUM COMPOUNDS N63-12487 05-07	ATMOSPHERIC, OCEANOGRAPHIC & GEOHYDROLOGIC STUDIES RELATED TO NUCLEAR ROCKET FLIGHT N63-22308 23-16
ROCKET POLLUTION OF UPPER ATMOSPHERE - CHANGES IN COMPOSITION, TEMPERATURE, ELECTRON DENSITY, AND AIRGLON GCA-TR-02-18-G N63-12770 06-12	ROCKET LIMER ROCKET LIMERS - METALLOSILOXAME COPOLYMERIC ELASTOMERS ROC/LIN-FINAL N63-12667 06-19
ACTION OF HYPERSONIC JET ON DUST LAYER - RELATED TO LUNAR SURFACE ERDSTON BY ROCKET EXHAUST TAS-PAPER-63-50 N63-12894 07-29	ROCKET LINER PROGRAM - CATALYST FOR CURING STANNO SILOXANE POLYMERS ROC/LIN-BQ N63-15416 12-07
LAUNCH DEFLECTOR DESIGN CRITERIA AND SATURN C-1 DEFLECTOR FOR EXHAUST JET ENERGY DISTRIBUTION NASA-TN-D-1275 N63-14025 09-31	ROCKET LINER PROGRAM - STANNOSILOXANE POLYMER MATERIAL FOR ROCKET MOTOR CASE INSULATION APPLICATION
SOLAR ULTRAVIOLET INTERACTIONS WITH ROCKET EXHAUST GASES IN UPPER ATMOSPHERE - ABSORPTION BY IONIZATION OR DISSOCIATION N63-14036 09-12	ROC/LIN-70 CHEMICAL CORROSION OF ROCKET LINER MATERIALS AND PROPELLANT PERFORMANCE STUDIES
CHANGES IN TEMPERATURE STRUCTURE OF UPPER ATMOSPHERE - ROCKET POLLUTION GCA-TR-62-13-6 N63-14037 09-12	N63-22276 23-26 ROCKET MEASUREMENT ROCKET AND SATELLITE MEASUREMENTS OF METEORITIC
OZONOSPHERE CHANGES BY ROCKET EXHAUST GASES - OZONE RELAXATION TIMES AND OPTICAL PROPERTIES GCA-TR-62-14-G N63-14038 09-12	DUST N63-16640 14-29 FOUR-CELL ROCKETBORNE HAGNETOMETER SMC-TDR-62-101 N63-16776 14-06
IONOSPHERIC CHANGES DUE TO ROCKET EXHAUST CONTARINATION GCA-TR-62-15-G N63-14039 09-12	STRUCTURAL ANALYSIS OF UPPER ATMOSPHERE FROM ROCKET AND SATELLITE MEASUREMENTS OF CHARGED PARTICLES N63-17106 15-12
ROCKET EXHAUST SAMPLING FOR TWO PHASE EXHAUST FLOW SYSTEMS RMD-2103-F N63-14980 11-07	GEOMAGNETIC FIELD - ROCKET MEASUREMENTS IN AURORAL ZONE - X-RAY BURSTS AND ELECTRON FLUX NASA-CR-50116 N63-18050 16-12
CHANCE VOUGHT HYPERVELOCITY WIND TUNNEL TEST - FORCE, DYNAMIC STABILITY, PRESSURE, HEAT TRANSFER, ROCKET EXHAUST EFFECT N63-15184 11-10	IGY ROCKET PROGRAM RESULTS - TEMPERATURE, WIND, DENSITY & RADIATION MEASUREMENTS IGY-ROCKET REPT7
FLOW FIELD AND MISSILE BASE HEATING OF A ROCKET EXHAUST - HEAT TRANSFER AND BASE PRESSURES AIAA PAPER-63-179 N63-17925 16-13	IGY ROCKET-GRENADE WIND & TEMPERATURE MEASUREMENTS ABOVE GUAM N63-19678 19-12
ELECTRON CONCENTRATION MEASUREMENT TECHNIQUES IN EXHAUST OF SOLID FUEL ROCKET ENGINE WITH MICROMAVE RADIATION - MICROWAVE SPECTRUM STUDY	TIME SECTION AND HODOGRAPH ANALYSIS OF CHURCHILL ROCKET AND RADIOSONDE WINDS AND TEMPERATURE N63-19679 19-12
M63-18715 17-24	ROCKET MEASUREMENT OF MAGNETIC FIELDS ABOVE MEN MEXICO 19-12
THERMIONICALLY EMITTING PARTICLES IN ROCKET EXHAUSTS - MICROWAVE SPECTRUM STUDY N63-18716 17-24	SOLAR X-RAYS - ROCKET MEASUREMENTS 19-28
UNCOOLED DEFLECTORS FOR MISSILE LAUNCHERS - ENERGY CONTENT OF PROPELLANTS - THERMODYNAMIC PROPERTIES	OBSERVATIONAL ASTROPHYSICS FROM ROCKETS - NEBULAR PHOTOMETRY AT 1300-A N63-19703 19-05
OF ROCKET EXHAUSTS VITRO-2331-1-60 M63-18748 17-27 AUXILIARY EJECTOR EFFECTS ON ROCKET-DRIVEN	DC PROBE FOR ROCKET MEASUREMENTS OF ELECTROM DENSITY AND TEMPERATURE IN IONOSPHERE MASA-CR-51506 A03-21975 22-24
OIFFUSER PERFORMANCE DURING THRUST VARIATION AEDC-TDR-63-188 MAG-22022 22-02	ROCKET & SATELLITE ASTRONOMY RESEARCH FACILITY N63-23077 24-29
SHORT-DURATION COMBUSTOR TO SIMULATE LIQUID-ROCKET ENGINE EXHAUST FLOWS NASA-TH-X-51978	ROCKET MOTOR CASE LIGHTMEIGHT, SEGMENTED ROCKET MOTOR CASES
AERODYNAMIC STRUCTURE OF ROCKET EXHAUST PLUME AT VARIOUS ALTITUDES WITHOUT REACTION - DEFENDER PROJECT AND AS-27898 24-02	EMPLOYING FIBERGLAS R-3703-2 N63-10144 01-17 CRYOGENIC STRETCH FORMING OF SOLID-PROPELLANT
PROJECT M63-23780 24-02	ROCKET CASES 201 1407 15072 0 4007 N63-10457 41 01-17
RADIO-ATTENUATION MEASUREMENT / RAM AL/ TEST, FOUR- STAGE SOLID-PROPELLANT ROCKET VEHICLE - PERFORMANCE AND DESIGN	X-RAY IMAGE SYSTEM FOR MONDESTRUCTIVE TESTING OF SOLID-PROPELLANT MISSILE CASE WALLS AND MELDMENTS WAL-TR-142-5/1-4 N63-10713 02-17
NASA-TN-D-1611 OYNAMIC ANALYSIS OF LIQUID IN A SPHERICAL TANK WITH APPLICATIONS TO TRAJECTORY FAILURE AND LOSS	STRUCTURAL INSTABILITY OF SOLID-PROPELLANT ROCKET ENGINES A 1 No.3-10054 02-33
OF CONTROL IN MISSILE AND ROCKET FLIGHT N69-13631 08-23	SCINTILLATION DETECTION SYSTEM FOR THE INSPECTION OF LARGE SOLIO-PROPELLANT ROCKET ENGINES USNROL-TR-589 N63-10883 02-27
DISCREPANCIES WITH DELTA-P SENSORS FOR MONITORING	MOTOR CASEMBY CERTBOGENT CHARREST CHARLES OF THE

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HIGH ALTITUDE BASE HEATING OF 4-ENGINE ROCKET
NOZZLE CONFIGURATION
CAL-HM-1510-Y-/1/ R63-15429 12-26

ELECTRON BEAM WELDING FOR HIGH-			ATTER THE PROPERTY OF THE PERSONNEL	N63-22087	22-25
ROCKET MOTOR CASES	N63-10896	02-17	HIGH-STRENGTH, LIGHTWEIGHT, TITA	NIUM ALLOY	SOLID
STEELS FOR LARGE SOLID-PROPELLAN	NT ROCKET MO	TOR	FUEL ROCKET MOTOR CASE WAL-TR-766.2/1-10	N63-23003	24-18
DM1C-178	N63-11120	03-27	ADHESIVE BONDING OF END CLOSURES	FOR HIGH S	
LIGHTWEIGHT ROCKET MOTOR CASE SE AND DEVELOPMENT PROGRAM			AND RELIABILITY IN ROCKET HOTOR SPDIR-28	CASES N63-23190	24-30
SM-42097	N63-11170	03-27	ROCKEY NOZZLE	A43.000 (000)	308-12
SEGMENTED ROCKET MOTOR CASE - ST JOINTS - COMPUTER PROGRAM SM-42514	RESSES IN L	AP 03-27	HEAT TRANSFER AND PARTICLE TRAJE ROCKET NOZZLES BSD-TDR-62-165	CTORIES IN	PARTIES.
HECHANICAL PROPERTIES OF STRUCTS	DAI MATERIA		ROLL-FORMED TUNGSTEN NOZZLE COMP	OMENTE	TOME
UNDER GENERAL STRESS AND RAPID P	MEATING	03-33	ni -in maddivens 111 Or	N63-10169	01-17
TITANIUM ROCKET HOTOR CASE			FLOW SEPARATION IN A CONTOUR NOZ JPL-TR-32-317	ZLE N63-10710	02-11
PHA-2087	N63-11439	03-27	RESEARCH SURVEY ON THE STABILITY	DE CHELL	CANUALY
SURFACE STRAINS IN CASE-BONDED PENGINES AND STUDIES OF INTERNAL SOLID PROPELLANT GRAINS	ODELS OF RO DISPLACEMEN N63-11932	CKET TS IN 04-27	STRUCTURES UNDER HYDROSTATIC LOA CONDITIONS AND SMALL DEFLECTION	DING - BOUN THEORY N63-10847	02-33
MATERIALS SELECTION FOR LARGE SC		MOTOR	MATERIALS FOR ROCKET NOZZLES	N63-10919	02-13
CASES BASED ON WEIGHT, HISSION, ENVIRONMENT DMIC-180	N63-11964	05-27	PHYSICAL AND CHEMICAL PRINCIPLES REFRACTORY MATERIALS FOR ROCKET		4745 4346
0.00		100	THE PROPERTY OF THE PARTY OF TH	N63-11417	03-18
LOW-CARBON HIGH-NICKEL MAR-AGING DMIC-MEMO-162	N63-12296	05-18	GAS-METAL REACTION IN ROCKET NOZ	ZLES N63-11771	04-07
DEVELOPMENT OF LIGHTWEIGHT, SEGN	ENTED ROCKE	T HOTOR	EQUATIONS FOR TWO-DIMENSIONAL AN		
CASES FROM FIBERGLASS R-3703-3	N63-12324	05-27	FLOW OF GAS-PARTICLE MIXTURES IN AFBSD-TDR-62-144	ROCKET NOZ N63-11959	ZLES 05-11
EXPLOSIVE FORMING OF CLOSURES FOR	R SOLID-PRO N63-12492	PELLANT 06-26	CONTINUOUS SCAN SCINTILLATION SY	STEM FOR	
NONDESTRUCTIVE TESTING FOR FILAM FIBERGLASS ROCKET MOTOR CASES	ENT WOUND		INSPECTION OF TUNGSTEN BILLETS FOR SOLID PROPELLANT ROCKET ENGINES USNRDL-TR-602	N63-12474	06-17
NRL MEMO-221	N63-12903	07-17	THRUST MODULATION TECHNIQUES - C	010 FLOW TE	ere ne
SEGMENTED ROCKET MOTOR CASE FOR PROPELLANT ROCKET ENGINE	160-240 INC	H SOLID	THREE VARIABLE-THROAT-AREA CONVE		
SM-42911	N63-12938	07-17	NASA-TH-X-42	N63-12550	06-02
PERSHING HOTOR CASE CLOSURE FROM COBALT-HOLYBDENUM MAR-AGING STEE			EROSION RESISTANCE AND FAILURE M MOZZLE MATERIALS IN SMALL SOLID- ROCKET ENGINE	ECHANISMS O	F
WATERIALS W-G-RD-62-156	N63-13654	08-34	NASA-TN-D-1658	N63-12931	07-27
CRYOGENIC STRETCH-FORMING OF SOL ROCKET CASES	ID PROPELLA N63-13708	NT 08-17	FABRICATION OF TITANIUM DIBORIDE NITRIDE - BORON MITRIDE ROCKET N	OZZLE INSER	ITS
DEVELOPMENT OF DEEP DRAWN - ONE	PIECE HIGH		TR-371-9/4	N63-13138	07-17
PERFORMANCE ROCKET MOTOR CASE	N63-13731	08-27	TEMPERATURE AND HEAT TRANSFER ME ROCKET NOZZLE THROATS AND EXIT C	ONES -	IN
ROCKET LINER PROGRAM - STANNOSIL MATERIAL FOR ROCKET MOTOR CASE I	OXANE POLYN	ER	INSTRUMENTATION TECHNIQUES, CHAR NAVWEPS-6022	N63-13629	06-13
APPLICATION ROC/LIN-70	N63-15843	13-07	OBTAINING NOZZLES OF MAXIMUM THR ISOPERIMETRIC CONDITION IS IMPOS	ED	A.
EXPLOSIVE FORMING OF LARGE SOLID	PROPELLANT	MOTOR	BEITATING TENSION WE STORY MANAGEMENT	N63-13835	09-20
CASES	N63-17016	15-27	FEASIBILITY OF OPTIMIZING NOZZLE ORBITAL-LAUNCH NUCLEAR ROCKETS	100 000 000 000	
TITANIUM ALLOYS FOR SOLID FUEL R PWA-2156	N63-18144	16-17	HASA-TN-0-1578	N63-14251	10-02
ADHESIVE BONDING OF END CLOSURES AND RELIABILITY OF METALS IN ROC	FOR HIGH S KET MOTOR C N63-19611	TRENGTH ASES 19-34	PHYSICAL AND CHEMICAL PRINCIPLES YEMPERATURE MATERIALS FOR ROCKET OXIDATION, CORROSION, THERMAL EX	NOZZLES -	10-07
LIGHTWEIGHT SINGLE STEEL FORGING SOLID ROCKET MOTORS	CASE DESIGNAS-20272	N FOR 20-27	DEVELOPMENT OF TUNGSTEN-SILVER A NOZZLES - SINTERING TECHNIQUES A WITH SILVER-LITHIUM ALLOYS	LLOYS FOR R	TION
DEVELOPMENT OF IMPROVED HIGH-STR FOR FILAMENT-WINDING OF ROCKET N		FIBER	WAL-TR-372/32-5, T-3	N63-15199	11-10
FREE-FORMING DIE FOR PRODUCTION	N63-20443 OF LARGE SC	20-19 ALE	PLASTIC DEFORMATION THEORY FOR C MATERIALS FOR TUNGSTEN FIBER ROC COPPER-NICKEL, SILICON, ALUMINUM	KET NOZZLE	MATRIX,
CLOSURES FOR SOLID PROPELLANT HO	TOR CASES		SAN TO THAT THE THE VALUE AND THE	N63-15411	12-18

FREE-FORMING DIE FOR PRODUCTION OF LARGE SCALE CLOSURES FOR SOLID PROPELLANT MOTOR CASES M69-21666 22-26

FABRICATION OF 65.5-INCH DIAMETER SIMULATED ROCKET HOTOR CASE BY CRYOGENIC STRETCH-FORMING

2-26 10 4-18 4-78 4-30 10 1-13

2-11

2-33

3-18 4-07 4L 5-11

0F 1 1-02

1-27

1-17

2-16

2-26

ELECTRODEPOSITION OF CHRONIUM CENTER SOLID PROPELLANT ROCKET NOZZLI	RMETS FOR CON ES N63-15493	
SOLID ROCKET HOZZLE COOLING WITH	St. No. No. of Section 2	58:11
	N63-15546	12-27
MACTICAL CRITERIA FOR THERMAL PI MCKET MOZZLES — DETERMINATION OF MATERIALS FOR JACKET & CASING IN:	ROTECTION OF F APPROPRIATI SULATION N63-15651	
EASIBILITY OF USING LIQUID ROCK ECHNIQUES FOR COOLING SOLID ROCK RAMSFER COEFFICIENTS FOR UNCOOL	KET NOZZLES -	LING HEAT
PROLYTIC GRAPHITE COATINGS FOR INFECT OF DEPOSITION VARIABLES OF INCOSTRUCTURE - SCALE MOTOR TEST	ROCKET NOZZLE N GRAPHITE T FIRING RESU N63-15942	S - ILTS 13-27
OLID ROCKET NOZZLE APPLICATIONS	NA3-15075	13-26
OCKET PROPULSION SYSTEM - NONEQU		W IN
OCKET NOZZLES DR-930/2230-06/TR-1	N63-16134	13-02
OCKET NOZZLE INSERTS OF TITANIU	M DIBORIDES.	Maria II
ITANIUM NITRIDE AND BORON NITRI	DE N63-16587	14-27
EAT TRANSFER OF SOLID PROPELLAAI XHAUST GAS TO MOLYBDENUM NOZZLE OLTR-62-72	NT ROCKET ENG THROAT INSER N63-16924	INE IT 14-13
FFECTS OF GAS-PARTICLE MIXTURES	ON PERFORMAN	ICE OF
OCKET NOZZLES PC-348	N63-17595	16-11
ORROSION RATES OF REFRACTORY ME OLIEN LITHIUM, SODIUM, POTASSIU IQUID METAL COOLANT FOR ROCKET	M AND MAGNES! NOZZLE	UM -
	N63-18356	17-02
ONDENSATION IN ROCKET NOZZLE FLOUCLEATION	MAR-TORYE	17-07
AS DYNAMICS OF ROCKET NOZZLE FL LOW AND CROSSED AND ALIGNED FIE	ON - MAGNETO- LD FLOW STAB! N63-18576	FLUID ILITY 17-11
ELF-COOLED ROCKET ENGINE NOZZLE		IN A SET
-3853-3 AMERICAN AND AND AND AND AND AND AND AND AND A	N63-19139	18-13
ERODYNAMIC AND STRUCTURAL DESIGN PERABLE UNDER SEPARATED FLOW CO. ODE VIBRATIONS OF CONICAL NOZZL	NDITIONS - BI	LL
#2#-CK-200A5	N63-19267	18-02
ORGING PARAMETERS FOR FIRST STA 3 TUNGSTEN NOZZLE INSERTS	N63-19332	18-18
ORGING, RING ROLLING, AND SHEAR OZZLE INSERTS FOR ADVANCED POLA	SPINNING TURNING TURNIS MOTORS	IGSTEN 18-17
IGH-TEMPERATURE PHYSICAL AND CHI EFRACTORY CARBIDES AND BORIDES	EMICAL BEHAV FOR ROCKET N N63-19603	OR OF DZZLES 19-23
ETRAN COMPUTER PROGRAM FOR CALCI EMPERATURE IN ROCKET MOZZLE STRI RANSIENT HEAT TRANSFER	ULATING THE	1035 No.
BL/X-98		19-13
ATHEMATICAL ANALYSIS OF CONVECT N NUCLEAR ROCKET NOZZLE	2000	PERSON NO
ASA-TN-D-1742		19-13
	AND REFRACTI N63-19792	GASES DRY 19-26
UNGSTEN ALLOYS FOR ROCKET NOZZL	ES N63-19923	19-18

HIGH TEMPERATURE ROCKET NOZZLE MATERIAL - REACTION

	OF TANTALUM CARBIDE WITH CARBON DIOXIDE AS FUNCTION OF PRESSURE & TEMPERATURE U-2257 N63-22278 23-02
	DETERMINATION OF TEMPERATURE HISTORY OF SOLID PROPELLANT ROCKET ENGINE NOZZLE N63-22539 23-02
	THEORY OF MASS TRANSPORT APPLIED TO KINETICS OF SURFACE REACTIONS & GASEOUS DIFFUSION IN DESIGNING ROCKET NOZZLES N63-22652 23-02
	EFFECT OF PENETRANTS ON GRAPHITE NOZZLE THROATS UNDER ROCKET MOTOR FIRING CONDITIONS ABL/X-105 N63-23743 24-19
8	COCKET PROPELLANT EFFECT OF CONTACT ANGLE AND SPACE VEHICLE TANK GEOMETRY ON CONFIGURATION OF ROCKET PROPELLANT LIQUID-VAPOR INTERFACE DURING WEIGHTLESSMESS HASA-TN-D-2075 N63-23684 24-02
•	COCKET SLED SPIKE-BLUFF BODY FOR MOMORAIL ROCKET SLED - WIND TUNNEL TESTS RAL-RR-186
	WIND TUNNEL MEASUREMENTS OF LIFT AND DRAG OF SLIPPER BEAMS MOUNTED ON SUPERSONIC ROCKET SLED RAL-RR-190 N63-11861 04-02
	VELOCITY AND ACCELERATION PROFILES OF ROCKET SLEDS USING ADVANCED TRACKS ORA-63-1 N63-13417 08-10
	ENVIRONMENTAL VIBRATION AND ACCELERATION TESTING ON ROCKET SLED TEST TRACK N63-16766 14-10
	INERTIAL GUIDANCE SYSTEMS - ACCELEROMETER ERRUR COEFFICIENTS FROM ROCKET SLED TRACK TESTS N63-16858 14-15
	INERTIAL GUIDANCE SYSTEMS - ROCKET SLED TEST TRACK N63-16862 14-15
	INERTIAL GUIDANCE SYSTEMS - CENTRIFUGE AND ROCKET SLED TEST METHOD
	TRACKS, SLED STRUCTURES, PROPULSION TECHNIQUES, AND INSTRUMENTATION ADAPTABLE TO WEAPONS SYSTEMS
	NOTS-1938, REV. 1 NG3-17128 15-10 AEROELASTICITY - SCALE MODEL TESTING FACILITIES - ROCKET SLED, GROUND LAUNCHED ROCKET, AND FREE FALLING BOMB N63-17824 16-10
•	ROCKET SONDE ROCKETSONDE INSTRUMENT PACKAGE FOR HIGH ALTITUDE METEOROLOGICAL SOUNDING AFGRL-62-875 N63-11954 05-15
	CLIMATOLOGICAL WIND AND WIND VARIABILITY BETWEEN 150,000 AND 200,000 FEET - ROCKETSONDE AWS-TR-166 N63-14575 10-21
	IMPEDANCE CHARACTERISTICS OF CAPACITIVE IONOSPHERE ROCKET PROBE AFCRL-63-285 N63-15724 12-12
	RESEARCH AND DEVELOPMENT OF NEW TECHNIQUES AND EQUIPMENT FOR ROCKET-BORNE SPECTRORADIOMETRIC SYSTEMS AFCRL-63-249 N63-16466 14-15
	HEAT TRANSMISSION IN LEADS OF ROCKETSONDE THERMISTOR, HIND AND TEMPERATURE DISTRIBUTION AND ENERGY EXCHANGE IN STRATOSPHERE N63-16921 14-12
	SOURCES OF ERROR IN ROCKETSONDE THEAMISTOR DATA - REVIEW OF PROBLEM AREAS IN STRATOSPHERIC METEOROLOGY N63-17645 16-12
	CONTROL CAMPONENT NOTATION NOTATIONS ASSESSMENT

WIND AND TEMPERATURE BETWEEN 30 AND 80-KM - 00 - 12

8 T V C R 6 H

ROLL

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ROLL

THERMISTORS FOR ROCKETSONDE OF UPPER ATMOSPHERE N63-17745 16-12	ROCKETRY SPACE SCIENCE - DOPPLER PRINCIPLE IN ROCKETRY - TRACKING SYSTEMS N63-15999 13-00
ROCKETSONDE WIND AND TEMPERATURE MEASUREMENTS BETWEEN 30 & 70-KM FOR SELECTED STATIONS ERDA-70 N63-22783 23-21	SPACE SCIENCE - GEODESY AND ROCKETRY M63-16011 13-10
AN/DHQ-9 ROCKETSONDE INSTRUMENT PACKAGE AFCRL-63-841 M63-23168 24-04	DANISH-NORWEGIAN ROCKET RESEARCH NSRC-1 N63-21076 21-41
ROCKET SOUNDING INFRARED HORIZON SCANNING BY ROCKETBORNE RADIOMETER AFCRL-62-1001 N63-10069 01-12	COOPERATION IN ROCKET RESEARCH BY EUROPEAN LAUNCHER DEVELOPMENT ORGANIZATION /ELDO/ AND EUROPEAN SPACE RESEARCH ORGANIZATION /ESRO/ N63-21077 21-41
UPPER ATMOSPHERE WIND MEASUREMENTS DETERMINED FROM TWELVE ROCKET EXPERIMENTS - SODIUM AND CESIUM VAPOR CLOUDS N63-11244 03-12	PERSPECTIVES FOR GEOPHYSICAL RESEARCH IN HIGHER ATMOSPHERE - ROCKETRY N63-21078 21-12
GEOPHYSICS AND ASTRONOMY IN SPACE EXPLORATION NASA-SP-13 03-12	SCIENTIFIC AIMS OF DANISH-NORWEGIAN ROCKET PROJECT - ROCKETRY N63-21079 21-11
GYROINTERACTION EXPERIMENTS OF PROCESSES IN LONGSPHERE CARRIED OUT BY ROCKETS	ANDOYA ROCKET SITE - ROCKETRY N63-21080 21-16
AFCRL-62-1071 N63-12298 05-12 WIND VARIABILITY AND ITS EFFECT ON ROCKET IMPACT	N63-21081 21-22
PREDICTION SELWS-M-21 N63-12303 05-21	N63-21082 21-13
IONIC CONDUCTIVITY STUDIES IN UPPER ATMOSPHERE - INSTRUMENTATION - AEROBEE ROCKET PAYLOAD DESIGN NG3-13044 07-15	TELEMETRY AND ROCKET EXPERIMENTS AT ANDOYA N63-21083 21-22
ROCKET SOUNDING OF UPPER ATMOSPHERE FOR ION DENSITY, MIND VELOCITY, TEMPERATURE DISTRIBUTION	NORMEGIAN PARTICIPATION IN FRENCH ROCKET EXPERIMENTS IN THE SAHARA N63-21084 21-12
COSMIC RAYS, AND ELECTRON DENSITY N63-13255 07-12	CF BALLOON
METEOROLOGICAL ROCKET NETWORK WIND AND TEMPERATURE DATA - WINTER 1961-1962 1RIG-109-62 N63-14223 09-21	DEVELOPMENT OF SOUNDING ROCKETS IN JAPAN - RADAR AND OPTICAL TRACKING, MANAGEMENT, AERODYNAMICS, ROCKDON, AND ELECTRONIC EQUIPMENT NASA-TT-F-87 N63-13251 07-94
DEVELOPMENT OF ROCKETBORNE INFRARED SPECTROMETER EMPLOYING PRINCIPLES OF MOCK INTERFEROMETRY AFCRL-63-234 N63-15282 12-15	ROCKOON - HIGH ALTITUDE BALLOON LAUNCHER FOR SOUNDING ROCKETS N63-13253 07-04
DESIGN AND OPERATION OF TWO-CHANNEL, ROCKETBORNE EBERT GRATING SPECTROMETER AFCRL-63-254 N63-15361 12-15	SA CONTROL ROD SURFACE PRESSURE DISTRIBUTION ON FLAT PLATE BY COLD AIR JET AND CYLINDRICAL ROD NASA-TN-D-1629 N63-13792 09-11
ULTRAVIOLET STELLAR SPECTRA FROM ROCKET SOUNDINGS, COMPARISON OF OBSERVED RADIATION FLUX WITH MODEL STELLAR ATMOSPHERES AND INTERSTELLAR RADIATION NASA-TM-X-50021 N63-16707 14-28	APPLICATIONS OF THEORY OF DYNAMIC STABILITY OF ELASTIC SYSTEMS - RODS, ARCHES, BEAMS, PLATES, AND SHELLS
ROCKET STEERING MOTOR CF STEERING	SSD-TDR-62-154, VOL. III N63-13956 09-23 COUPLING PERTAINING TO STEEL SPHERE IMPACTING THE ENDS OF RODS OF VARIOUS MATERIALS
ROCKET VEHICLE FLIGHT MEASUREMENTS IN SMALL ROCKET VEHICLES WGL PAPER-45 N63-10041 01-15	NOTS-TP-3069 N63-14227 09-33 SURFACE WAVE EXCITATION - PART I, LAUNCHING THE
INFLUENCE OF DRAG DURING BOOST ON ROCKET VEHICLE PERFORMANCE N63-11462 03-02	ODMINANT DIPOLE MODE INTO A CIRCULAR CROSS SECTION DIELECTRIC ROD - PART II, SOMMERFIELD WAVE AFCRL-62-173 N63-14659 10-25
DEVELOPMENT AND FLIGHT PERFORMANCE OF THE X-1 SERIES, DOUGLAS D-558-11, AND X-15 RESEARCH	LONGITUDINAL IMPACT ON VISCO-PLASTIC RODS - STRAIN ANALYSIS N63-14675 10-33
ANALOG COMPUTER METHOD FOR TWO-DIMENSIONAL TRAJECTORY OF SINGLE-STAGE ROCKET VEHICLE CARDE-TM-662/62 N63-12092 05-20	MIRE MRAPPING EFFECT ON PRESSURE DROP FOR AXIAL TURBULENT FLOW THROUGH ROD BUNDLE ASSEMBLIES MM-65173-REV N63-19361 18-11
SEA DRAGON VEHICLE IN ROCKET SEA LAUNCH AND RECOVERY N63-13741 08-30	RODENT BREEDING OF HETEROMYID RODENTS - ANNOTATED BIBLIOGRAPHY N63-23536 24-16
HEATED-HYBRID GENERATED GAS PRESSURIZATION SYSTEM FOR LIQUID PROPELLANT TRANSFER IN ROCKET VEHICLES JPL-TR-32-375 N63-14483 10-27	ROLL SA DUTCH ROLL CF HOTION
WIND TUNNEL TESTS TO DETERMINE EFFECT OF FIN SIZE, FIN CANT, AND AUXILIARY ROCKET ENGINES ON ROCKET VEHICLE CONFIGURATIONS AT MACH 1.80 TO 4.63	STATIC LONGITUDINAL STABILITY AND ROLL OF THREE- STAGE MISSILE CONFIGURATION AT SUPERSONIC SPEEDS NASA-TM-X-124 N63-12556 06-82
NASA-TN-0-1929 N63-18467 17-02	

3-01

3-10 1-01

1-01 R 1-12

1-12 1-10 1-22 1-12 1-22 1-12

AR . 7-04 7-04

9-11

9-23 THE 9-33 TION 0-25

RAIN D-33 8-11

4−16

5-02 or on

5-82

NAT-13069 -04-17.

VERTICAL POSITION OF CENTER OF GRAVITY AND	ASC-TR-7-827/VII/ WA VON CHOOL NO N63-16968 134 14-18
NOLL STABLETTY OF ANNOLAR SET GROUND EFFECT NACHINE TCREC-TR-62-101 N63-12994 07-04	HOLYBDENUM SHEET ROLLING PROGRAM N63-17747 16-18
COMPARISON OF STEADY-STATE AND SIX-DEGREE-OF- FREEDOM ANALYSIS OF PITCH-ROLL RESONANCE CONDITIONS FOR LONG SLENDER SOUNDING ROCKET MASA-TN-D-1816 N63-16992 15-32	ROLLING MOTION OF 79-DEG CLIPPED DELTA WING CONFIGURATION AT SUPERSONIC SPEED - FREE FLIGHT INVESTIGATION NASA-TN-D-2017 N63-23652 24-30
EFFECT OF STATIC STABILITY, PITCH DAMPING, ROLL & TRIM ANGLE ON HYPOTHETICAL NOSE CONE REENTRY VEHICLE CARDE-TN-1559/63 N63-17179 15-30	ROLLING CONTACT ELASTOHYDRODYNAMIC LUBRICATION - ROLLING CONTACT FATIGUE, FILM THICKMESS AND TEMPERATURE MTI-62TR29 N63-11756 04-17
ROLLING STABILITY DERIVATIVES OF HYPERSONIC GLIDERS AT SUBSONIC SPEEDS NASA-TM-X-268 N63-17465 15-04	SURFACE TEMPERATURE IN ROLLING-SLIDING CONTACTS LUBRICATED WITH ELASTOHYDRODYNAMIC LUBRICATION MT1-63TR3 N63-13750 08-17
DL DAMPER MEASUREMENT OF ROLL DAMPING IN THE WIND TUNNEL WGL PAPER-15 N63-10013 01-15	FATIGUE TESTER USING A CONE IN ROLLING CONTACT WITH THREE BALLS TO STUDY LUBRICANT EFFECT ON BEARING FATIGUE N63-17826 16-17
OLL FORMING ROLL-FORMED TUNGSTEN NOZZLE COMPONENTS N63-10169 01-17	POWDER LUBRICATION OF ROLLING CONTACT BEARINGS AT HIGH SPEED AND HIGH TEMPERATURE N63-17835 16-17
STABLE BETA TITANIUM ALLOY - STABILITY, TENSILE STRINGTH, AMENABILITY ROLL FORMING TEST PERFORMED	ROLLING CONTACT BEARING FATIGUE UNDER OSCILLATORY LOAD TESTING 16-17
ROLL FORMING OF REFRACTORY METALS - TENSILE STRENGTH - MOLYBDENUM TITANIUM ALLOY	RHEOLOGY-OF LUBRICANT IN CONTACT ZONE OF ROLLING CONTACT SYSTEM N63-17876. 16-17
N63-19632 19-18	ROLLING CONTACT DEFORMATION AND TORSIONAL FATIGUE MECHANISMS N63-19166 18-33
EFFECT OF LUBRICATION LOADS & COMPOSITION ON BALL AND ROLLER BEARING FATIGUE IN TURBOJET ENGINES M63-13069 07-33	INFLUENCE OF LUBRICATION ON ENDURANCE OF ROLLING CONTACTS AL63T016 N63-23713 24-17
DESIGN CRITERIA FOR AIRFRAME ROLLER BEARING FOR HIGH ALTITUDE USE MRC-1299 N63-16998 15-17	ROOT MATHEMATICAL TABLE OF NUMERICAL ROOTS CALCULATED '8Y DIGITAL TECHNIQUE SCR-501 N63-14898 11-20
ALING EXTRUSION, FORGING, ROLLING, AND EVALUATION OF REFRACTORY ALLOYS	ROOT SENSITIVITY IN TIME DOMAIN - LIMEAR SYSTEMS AFSWC-TDR-62-123 N63-16276 13-20
ASD-TDR-62-670 N63-10665 02-17 MOLYBDENUM SHEET ROLLING PROGRAM N63-10693 02-17	ROUTINE FOR COMPUTING REAL AND COMPLEX ROOTS OF POLYNOMIALS WITH REAL COEFFICIENTS TO TENTH DEGREE BRL-MEMO-1467 N63-17232 15-20
HOLYSDEHUM AND TITANIUM SHEET ROLLING N63-13274 07-18	ROTARY DRIVE METHODS OF IMPROVING HELICOPTER EFFICIENCY - AIR- FOIL CHARACTERISTICS, ROTARY DRIVE, DRAG EFFECTS
ROLLING EFFECTIVENESS OF AERODYNAMIC CONTROLS OF FIGHTER AIRCRAFT WITH ROCKET-POWERED MODEL AT TRANSONIC SPEED NACA-RH-L51128 N63-13866 09-03	ROTARY MING CF HELICOPTER ROTOR ROTARY MING AIRLOAD DISTRIBUTION IN FORWARD
TUNGSTEN & TUNGSTEN ALLOY SHEET ROLLING PROGRAM N63-14854 11-17	FLIGHT - PREDICTION BY COMPUTER PROGRAM CAL-BB-1495-S-1 M63-11746 04-03
NIOBIUM ALLOY SHEET ROLLING PROGRAM N63-16545 14-18	ROTARY MING HARMONIC AIRLOADS - THEORY AND EXPERIMENT N63-15432 12-03
ROLLING AND EXTRUSION OF PONDER METALS - CHROMIUM- MAGNESIUM OXIDE ALLOY, OXIDATION, NITRIDATION AND EROSION RESISTANCE ASD-TOR-63-297 N63-16905 14-18	ROTATING BODY TIME OPTIMAL VELOCITY CONTROL OF A ROTATING SPACE BODY - GIMBALLED CONTROL NS-703 N63-11422 03-32
TUNGSTEN SHEET ROLLING PROGRAM - OCT 1961 TO JAN 1962 ASC-TR-7-827/111/ N63-16964 14-18	TORQUE INDUCED BY MAGNETIC FIELD DN ROTATING CYLINDERS, COMES AND COME FRUSTUMS NASA-TR-R-129 N63-12596 06-29
TUNGSTEN SHEET ROLLING PROGRAM - JAN 1962 TO APR 1962 ASC-TR-7-827/IV/ N63-16965 14-18	SUPERSONIC FREE FLIGHT HEAT TRANSFER STUDY OF TWO COME CYLINDER BODIES AT ANGLE OF ATTACK OF 8-DEG WITH ONE BODY ROTATING
TUNGSTEN SHEET ROLLING PROGRAM - APR 1962 TO SEPT 1962 ASC-TR-7-827/V/ N63-16966 14-18	MASA-MEMO-12-31-58L N63-13890 09-13 ROTATING BODY VACUUM MOTION APPROXIMATION - RIGID SYMMETRICAL BODY WITH SPIN RATE AND INERTIA VARIANCES NASA-TR-R-115 N63-14781 11-02
TUNGSTEN SHEET ROLLING PROGRAM - SEPT 1962 TO JAN 1963 ASC-TR-7-827/VI/ N63-16967 14-18	ANALYSIS OF AXISYMMETRIC ROTATING PRESSURIZED
TUNGSTEN SHEET ROLLING PROGRAM - FEB 1963 TO APR	MASA-TN-0-1920 ED REVISE FOR PILI NGS-15778 13-34

RUTATING CYCINDER	2087EC1 THIEX
MAGNUS EFFECT ON ACCURACY AND STABILITY OF SPINNING FINNED BODY N63-15941 13-02	ROTATION SA FARADAY ROTATION CF GYRATION CF SPINNING, SPIN
PRESSURE DISTRIBUTION CALCULATIONS FOR SYMMETRICAL ROTATING BODIES WITH AXISYMMETRIC SUPERSONIC AND SUBSONIC FLOW USING APPROXIMATION COMPUTATION DVL-278 N63-17616 16-02	CF TORQUE PRESSURE INDUCED SHIFTS OF INFRARED LINES IN VIBRATION-ROTATION ABSORPTION BANDS OF HCL AFCRL-63-430 N63-14771 11-23
GAS LUBRICATED BEARINGS FOR HIGH SPEED ROTATING BODIES N63-17865 16-17	OSCILLATORY AERODYNAMIC DERIVATIVES FOR WING WITH CONTROL SURFACE - PITCH TRANSLATION AND ROTATION ARC-REM-3307 N63-15744 12-0
FLUID MECHANICS AND HEAT TRANSFER BEHAVIOR FOR RADIALLY INWARD FLOW OVER A SHROUDED ROTATING DISK N63-18826 18-13	ROTATIONAL ANALYSIS OF VISIBLE BROWINE/FLUORINE BANDS AND FORM OF O-PLUS TERMS
DYNAMIC EQUATIONS APPLIED TO ROTATING-BASIN EXPERIMENTS 19-23	MAGNETIC FIELD AND ROTATION PERIOD OF VENUS
WAVE DIFFRACTIONS FROM TRUNCATED ROTATING SURFACES AND KIRCHOFF OPTICAL THEORY NASA-CR-50998 N63-21359 22-11	TG-230-T304 MAGNETIC AND ELECTRIC FORCES FOR ROTATING SHAFT SUSPENSION
	EMI-4454-111-63U N63-16306 13-17
MOMENTUM AND ENERGY EXCHANGE OF RAREFIED GAS AND ROTATING SURFACE - EQUIPMENT AND PROBLEM ANALYSIS AST-3530-101-63U N63-21649 22-11	EFFECTS OF ROTATION ON STABILITY OF LAMINAR BOUNDARY LAYERS AROUND CURVED WALLS FLD-9 16-11 N63-17679 16-11
MOTION OF EXPLORER XI SATELLITE AROUND ITS CENTER OF MASS NASA-CR-51042 N63-21905 22-32	ROTATIONAL EXCITATION OF HOMONUCLEAR MOLECULES IN IMPACT WITH SLOW ELECTRONS - CALCULATION OF INELASTIC CROSS SECTION
ROTATING CYLINDER STABILITY OF VISCOUS FLOW BETWEEN ROTATING CYLINDERS - PRESSURE GRADIENTS N63-11298 03-11	R635D43 N63-17765 16-N LIQUID COOLANT LUBRICANTS FOR HIGH TEMPERATURE ROTATING SHAFTS N63-17855 14-17
TORQUE INDUCED BY MAGNETIC FIELD ON ROTATING CYLINDERS, CONES AND CONE FRUSTUMS NASA-TR-R-129 N63-12596 06-29	ROTATION OF LIQUIDS AND ITS INFLUENCE ON SURFACE FILM LAYER RSIC-20 N63-19359 18-11
STABILITY OF VISCOUS FLOW BETWEEN ROTATING CYLINDERS SEPARATED BY FINITE GAP MD-63-1 N63-14650 10-11	VIBRATION-ROTATION LINE STRENGTH AND WIDTH IN HYDROGEN CHLORIDE AND HYDROGEN 100IDE AFCRL-63-667 N63-19909 19-20
EFFECT OF ROTATING CYLINDER AT LEADING AND TRAILING EDGES OF HYDROFOIL	THEORY OF ROTATING DETONATION MAVE ROCKET HOTOR N63-21156 21-21
NOTS-TP-3036 N63-16037 13-11 FLOW BETWEEN CONCENTRIC ROTATION CYLINDERS - NOTE ON NARROW GAP APPROXIMATION /FLOW EQUATIONS/	SHOCK WAVE STRUCTURE WITH ROTATIONAL AND VIBRATIONAL RELAXATION N63-21573 22-W
N63-16358 14-02 HEAT TRANSFER AND TURBULENT AIR FLOW BETWEEN	HELIOMETER OBSERVATIONS OF MOONS ROTATION AND MECHANICAL FIGURE N63-23303 24-6
ROTATING CYLINDER AND STATIONARY, CONCENTRIC OUTER CYLINDER AT HIGH TEMPERATURES AFOSR-3207 N63-16550 14-13	ROTATIONAL FLOW LINEARIZED THEORY FOR ROTATIONAL, SUPERCAVITATING FLOW - APPLICATION TO PREDICTING FORCES ON SLEWER HYDROFOILS AND WEDGES N63-12434 OH-II
STABILITY OF INVISCIO FLUID BETWEEN ROTATING CYLINDER WITH AXIAL FLOW - SMALL GAP APPROXIMATION N63-17536 16-11	KARMAN-BODEWADT ROTATING FLOW AND STAGNATION FLO EXAMINED BY EXTENDED BOUNDARY LAYER THEORY NNL-1836 No.3-12446 06-81
DIFFERENTIAL EQUATION ANALYSIS IN ASYMPTOTIC TREATMENT OF STABILITY OF VISCOUS FLOW BETHEEN ROTATING CYLINDERS N63-17599 16-11	SIMPLIFIED MOMENTUM-INTEGRAL METHOD OF LAMINAR BOUNDARY LAYER ON DISK IM ROTATING FLOW JPL-TR-32-366 N63-15031 11-11
ROTATING ENVIRONMENT PROBLEM OF VESTIBULAR DISTURBANCES PRODUCED IN A ROTATING ENVIRONMENT N63-10396 01-16	ROTATING FLOWS NORMAL TO FLAT SURFACE AND VORTER FLOWS BY EXTENDED BOUNDARY LAYER THEORY NML-1853
ROTATING FLUID LAMINAR BOUNDARY LAYER FROM ROTATING FLUID FLOW - MOMENTUM INTEGRAL SOLUTIONS	LAMINAR BOUNDARY LAYER SIMILARITY SOLUTIONS FOR ROTATING FLOW WITH AND WITHOUT MAGNETIC
ATN-63/9227/-3 N63-19602 19-11	INTERACTION ATN-63/9220/-6 N63-19727 19-8
ROTATING MATTER SCHIFFS EQUATION FOR CHARGES AND CURRENTS IN ROTATING MATTER NB3-20796 21-23	MOBILITY OF NEGATIVE IONS IN HELIUM II LIQUIG AS FUNCTION OF DIRECTION & LIQUID ROTATION N63-23178 24-7
ROTATING HIRROR	THE STATE OF THE PARTY OF THE P
COMPENSATION FOR IMAGE DISPLACEMENT IN PANDRAMIC ARRIAL PHOTOGRAPHY BY A ROTATING MIRROR ASSEMBLY CAMERA ATTACHMENT JPRS-16853 N63-11463 03-23	SA RIGID ROTOR CF IMPELLER CF TANDEM-ROTOR HELICOPTER
ROTATING MIRRORS WITH HIGH SPEED FRAMING CAMERA IN FRAME PHOTOGRAPHY AFSWC-TDR-61-76 N63-14773 11-15	AFRODYNAMIC CHARACTERISTICS OF A TILT-DUCT VIOL AIRCRAFT NASA-TN-D-1491 N63-10200 61-9
230-27-520-2050	A CYROSCORE WITH A FILLID ROTOR

A GYROSCOPE WITH A FLUID ROTOR

CENT NON NON NON NOT

11-23 MITH TION 12-03 INE 13-23 AFT 13-17

16-11 ES 87 16-24 RE 16-17 FACE 18-11 N

TOR 21-21

22-24 D 24-65

FLOW ON-II ON-II ON-II AR 11-II RTEI

19-11 D AS 24-2

ICL

61-14

WHITE TO THE COURSE OF PROTECTION OF THE PROTECT	5-0 Gettion 115 demand
PTD-TT-62-761/16264 , 337 M63-10442 01-23	AROD-1325-16 ANDLESS OF BEAT N63-13661 08-33
HOVERING CHARACTERISTICS OF ROTOR HAVING AIRFOIL SECTION DESIGNED FOR UTILITY TYPE HELICOPTER NASA-TN-D-1517, 01-03	STRUCTURAL DYNAMICS OF ROTOR AIRCRAFT - STABILITY, RESONANCE ANPLIFICATIONS OF ROTOR-BLADE STRESS AND MEASUREMENT OF ROTOR HUB FORCES AND MOMENTS N63-14705 10-33
HUB-TIP RADIUS RATIO TRANSONIC TURBINE FOR SECONDARY FLOM - TURBINE WITH LOW-VELOCITY TURNING STATOR AND STANDARD ROTOR NACA-RM-ESTEO9 N63-12547 06-02	ROTOR-BLADE VIBRATORY LOADS - AERODYNAMIC LOADING THROUGH ALL FLIGHT PHASES N63-14707 10-33
STABILITY OF RIGID ROTOR SYSTEMS FOR HELICOPTERS RAE-TRANS-1020 N63-13702 08-03	QUALITATIVE EVALUATION OF EFFECT OF HELICOPTER ROTOR-BLADE TIP VORTEX ON BLADE AIRLOADS MASA-TN-D-1637 N63-16160 13-03
AERODYNAMICS OF LOADED HELICOPTER ROTOR FROM THREE-DIMENSIONAL VORTEX SYSTEM	TURBINE ROTOR BLADE TIP FLUID FLOW TIL/T-5325 N63-16903 14-11
RAE-TRANS-1013 N63-13724 08-03 EFFECT OF BLADE FLAPPING ON DYNAMIC STABILITY OF TILTING-ROTOR CONVERTIPLANE - BELL XV-3 AIRCRAFT N63-14696 10-04	HELICOPTER ROYOR BLADE EROSION PROTECTIVE MATERIAL FOR DESERT OPERATION N63-19171 18-17
FACTORS PRODUCING FRICTIONAL DRAG AND DECELERATION OF MAGNETICALLY SUSPENDED ROTORS AND DEVICE	HELICOPTER DYNAMIC LOADS IN REFERENCE TO HIGH BLADE INCIDENCE PROBLEMS OF HELICOPTER ROTORS N63-21291 21-02
ACHIEVING CONSTANT SPEED ROTATION ARDD-3764-1 N63-17151 15-23 ELECTROMAGNETIC PUMP FOR LIQUID METAL COOLING	HELICOPTER ROTOR BLADE CHORDWISE PRESSURE DISTRIBUTION AND TWO-DIMENSIONAL AIRFOIL CHARACTERISTICS N63-21830 22-04
SYSTEM OF NUCLEAR REACTORS USING HELICAL ROTORS AS INDUCERS NAA-58-7455 N63-17245 15-17	ACTOR BLADE HARMONIC AIRLOADING OF HELICOPTER AND V/STOL AIRCRAFT 22-04
DYNAMIC RESPONSE OF ROTOR SYSTEM WITH GAS LUBRICATED BEARINGS - FLUID FILM DAMPING FACTOR - INSTABILITY THRESHOLDS FOR DESTRUCTIVE SELF WHIRL NO3-17864 16-17	EFFECT OF MONRIGIO MAKE ON HELICOPTER ACTOR BLADE AIRLOADS IN TRANSITION FLIGHT N63-21832 22-03
N63-17864 16-17 HELICOPTERS - ROTOR AERODYNAMICS, PROPULSION AND DRAG, STABILITY AND CONTROL, STRESSES AND LOADS, VIBRATION, AND FLUTTER N63-17967 16-04	ELASTOMERIC COATINGS COMPARED TO STAINLESS STEEL AS EROSION RESISTANT LEADING EDGE OF HELICOPTER ROTOR BLADES A080 M63-21886 22-18
OUTBDARD BLADE DUCT CLOSURE VALVE FOR HOT CYCLE ROTOR SYSTEM - CHANGING EFFECTIVE NOZZLE AREA FOR ACCEPTABLE SINGLE-ENGINE OPERATION TCREC-TR-62-103 N63-19078 18-27	ROTOR HUB STRUCTURAL DYNAMICS OF ROTOR ATRCRAFT - STABILITY, RESONANCE AMPLIFICATIONS OF ROTOR-BLADE STRESS AND MEASUREMENT OF ROTOR HUB FORCES AND MOMENTS
PROPELLERS, SHROUDED PROPELLERS, AND ROTORS WGL-3/1962 R63-20126 20-03	N63-14705 10-33 ROUGHNESS SA SURFACE ROUGHNESS
ROTORS AND PROPELLERS OF GLASS FIBER REINFORCED PLASTICS N63-20129 20-03	HEAT TRANSFER AND FRICTION IN SMOOTH AND ROUGH TUBES AT VARIOUS PRANDTL NUMBERS
ENDURANCE TESTING OF ROTORS UNDER SIMULATED CONDITIONS N63-20130 20-03	BOUNDARY LAYER TRANSITION DUE TO ISOLATED ROUGHNESS N63-11848 04-11
WHIRLING ARM MODEL FOR HELICOPTER ROTOR TESTS N63-20131 20-03	TURBULENT SPOTS AND WALL ROUGHNESS EFFECTS IN SHOCK TUBE BOUNDARY LAYER TRANSITION
HELICOPTER ROTOR AERODYNAMICS N63-20160 20-04	N63-16382 17-11
HELICOPTER FLIGHT INSTRUMENTATION - INSTRUMENTAL CONTROL, MEASURING AERODYNAMICS OF ROTATING AIRFOILS N65-20161 20-04	VARIATIONAL CALCULUS FOR OPTIMIZING INTERPLANETARY ROUND-TRIP TRAJECTORIES MASA-TN-0-1660 N63-13793 09-20
DYNAMIC LOADS OF XYSA LIFT FAN FLIGHT AIRCRAFT WING STRUCTURE AND ROTOR AERODYNAMICS N63-20360 20-04	VELOCITY REQUIREMENTS FOR STOPOVER ROUND TRIP SPACEFLIGHT TO MARS FOR DEPARTURE DAYES FROM 1971 TO 1977
DESIGN OF SINGLE-STAGE TURBINE FOR ROTOR ENTERING	RM-3474-PR N63-19409 19-29 PAYLOAD CAPABILITIES OF VEHICLE CONTAINING LOW-
AT SUPERSONIC SPEED - PERFORMANCE CHARACTERISTICS NACA-RH-E58F20A N63-20534 20-27	THRUST POWER-LIMITED PROPULSION SYSTEM FOR EARTH- TO-MARS ROUNDTRIP MISSION
WARE VORTEX EFFECT ON AERODYMANIC LOADS OVER HELICOPTER ROTOR DISC N63-21828 22-04	NASA-CR-51014 NASA-21903 22-32 ROVER PROJECT
OTOR BLADE CF HELICOPTER ROTOR CF IMPELLER	COMPUTER DATA PROCESSING SYSTEM FOR PROJECT ROVER, 1962 LANS-2845 N63-14495 10-20
BLADE TEMPERATURES AND COOLANT PRESSURE LOSSES FOR CASCADE OF AIR-COOLED TURBINE ROTOR BLADES NACA-RH-E58E20 06-02	SAFETY OF IN-CORE EXPOSURE OF ROVER/NERVA FUEL TO PULSED IRRADIATION IN TRICA MARK F REACTOR
INVESTIGATION OF HIGH SUBSONIC TURBINE WITH HIGH ROTOR BLADE SUCTION-SURFACE DIFFUSION	POWER TRANSIENT USARDL-TR-669 N63-23181 24-27
NACA-RH-E56118 N63-12532 06-06 ELASTIC AND PLASTIC STRAIN IMPULSE PROPAGATION IN SOLIDS	ROVING IMPROVED UNIFORMITY AND STRENGTH UTILIZATION IN PREIMPRECNATED ROVING FOR FILAMENT-MOUND ROCKET CHAMBERS - POLARIS MISSILE M63-23069 24-17

RUBBER CF ELASTOMER ADDITIVE SYNTHESIS FOR IMPROVEC ELASTOMERIC VULCANIZATES - RUBB		MICROWAVE INTERACTIONS AT CRYSTAL DEFECT CENTERS - ELECTRON SPIN RESONANCE, LASER, SOLID STATE PHYSICS, INTERMETALLICS, DETECTORS M63-13121 07-29
EFFECT OF ADDITIVES AND CURE ON	N63-11317 03-07	PROPERTIES OF RUBIES AND OTHER SAPPHIRES N63-13122 07-25
CROSSLINKING, AND CHAIN SCISSIC RUBBER VULCANIZATE USNROL-TR-547		PUMP ENERGY REDUCTION REQUIRED FOR SOLID STATE RUBY LASER BY GAMMA RAY DAMAGE AND HIGH STATIC
RUBBER ELASTICITY OF PRESHOLLEN	POLYMER NETWORKS	PRESSURE APPLICATION - MICROWAVE SPECTRUM N63-18709 17-25
BY TORSION TESTS ONR-TR-RLT-57	M63-12756 06-07	EFFECT OF CRYSTAL STRUCTURE IMPERFECTIONS ON LASER OUTPUT OF RUBY LASERS - DISLOCATION ETCHING
SYNTHESIS OF SILCARBANE POLYMER TEMPERATURE RESISTANCE	N63-13119 07-07	TDR-169/3240-01/TN-2 N63-20668 Z0-25 DUAL-CAVITY RUBY MASER USED IN MARS RADAR
RIA-62-4162 CRYSTALLIZATION OF NATURAL RUBB	FR TAMES OF	EXPERIMENT NASA-CR-52020 N63-22877 23-08
RAE-TRANS-1021	N63-13690 08-07	CHARACTERISTICS OF RUBY LASER MODES IN NOMINALLY
AIR PURIFICATION AND CONTROL TO SUBMARINES - MICROPOROUS RUBBER SULFATE CYCLE ELECTROLYTIC CELL	DIAPHRAGH FOR	PLANE PARALLEL RESONATOR N63-23545 24-25 MEASUREMENT OF RAMAN SCATTERING CROSS SECTIONS FOR
	N63-14929 11-16	CALCULATING STIMULATED RAMAN SCATTERING EFFECTS - RUBY LASER N63-23546 24-25
CLOSE-PACKED WITH RIGID SPHERIC INCLUSIONS - MATHEMATICAL MODEL	AL PARTICULATE	IMPROVEMENT OF RUBY GROWTH VIA FLAME FUSION CRYSTAL GROWTH FOR LASERS N63-23550 24-25
GALCIT-SM-63-2 TENSILE IMPACT ON RUBBER AND NY	LAMPS 2513 W AD 1 F J. 25	DIFFRACTION LIMITED RUBY OSCILLATOR N63-23791 24-25
PROPAGATION AND CREEP IN POLYME STRUCTURAL DYNAMICS		RUDDER RESEARCH ON RUDDERS IN A SUPERSONIC JETSTREAM
RUBBER RESEARCH - SYNTHESIS OF HONOMERS FOR ADVANCED ELASTOMER		HGL PAPER-20 N63-10018 01-03
CHEMICAL RESISTANT RUBBER SERVI	N63-18181 16-07	LATERAL STABILITY TEST OF DELTA 2 RESEARCH AIRCRAFT - RESPONSE AFTER RUDDER PULSE ARC-CP-653 N63-22051 22-03
LOW TEMPERATURES	N63-18229 17-07	RULE CF LAW ME DISCONDER 1 2011 AND DAME METERS (MITTER)
PHYSICAL PROPERTIES OF VULCANAT NITRILE-BUTADIENE RUBBER AND ST RIA-TR-63-1574	YRENE RUBBER BLENDS N63-19844 19-19	CF REGULATION MID—AIR COLLISION AVOIDANCE NAVIGATION UNDER DAYTIME VISUAL FLIGHT RULES — USE OF INTENTIONALLY
RUBBER - PHYSICAL PROPERTIES OF ON NITRILE-BUTADIENE RUBBER AND BLENDS RD-343-Q1	STYRENE RUBBER	GENERATED VISIBLE TRAILS N63-18818 18-22 AIR TRAFFIC ALTITUDE EVASION IN VISUAL FLIGHT RULE COLLISION AVOIDANCE N63-19870 19-14
	MD3-14000 14-14	
RUBIDIUM CF ALKALI METAL APPLICATION OF FIELD—ION EMISSI ROCKET ENGINES — IONIZATION LIF	ON TO ELECTROSTATIC	LIGHTING EQUIPMENT FOR TELEVISION AND RADIO ANTENNA TOWERS - MARGINAL VISUAL FLIGHT RULES WEATHER N63-19935 19-22
LITHIUM, SODIUM, RUBIDIUM, CESI NASA-TN-D-1563		CONCEPT FOR VISUAL FLIGHT RULE AIRPORT LIGHTING - AIRPORT BEACONS, RUNWAY LIGHTS, WIND INDICATORS, & THRESHOLDS N63-21919 22-10
VAPOR PRESSURE OF ALKALI METALS AND SODIUM-POTASSIUM ALLOYS FOR TEMPERATURE HEAT TRANSFER - LIQ	USE IN HIGH	CF AIRPORT CF LANDING AID
DENSITY & VAPOR PRESSURE OF RUB USE IN HIGH TEMPERATURE HEAT TR		FOG CHAMBER LIGHTING TESTS OF AIRPORT LANDING LIGHTS N63-10620 02-11
METAL COOLED REACTOR	N63-15006 11-13	SUPERSONIC TRANSPORTS - AIRCRAFT AND LANDING-GEAR FACTORS AND RESPONSE TO RUNWAY ROUGHNESS
HIGH-TEMPERATURE LIQUID-METAL H RUBIDIUM-CESIUM EVALUATION HEAT	TRANSFER AND FLUID	MASA-TN-D-1492 M63-10624 02-04 AERODYNAMIC PROBLEMS AT TAKEOFF AND LANDING -
FLOW STUDIES IN FORCE CONVECTIO	N63-15014 11-13	HIGH SPEED AIRPLANES, V/STOL AIRCRAFT, RUNWAYS DFL-193 10-04
HIGH TEMPERATURE LIQUID METAL H OVERALL HEAT TRANSFER COEFFICIE METALS SOOIUM AND RUBIDIUM, CON	NTS FOR THE ALKALI	AIRCRAFT FIRE FIGHTING VEHICLE FOR RUNWAY FOAMING IN EMERGENCY LANDING NRL-5887 N63-14787 11-10
HIGH TEMPERATURE LIQUID METAL H TEST LOOPS FOR OBTAINING HEAT TO COEFFICIENTS FOR RUBIDIUM		SPACE & TIME VARIATIONS IN ATMOSPHERIC TRANSMISSION AT RUMMAY - SHORT RANGE MEATHER FORECASTING FOR AIR TRAFFIC CONTROL
THERMOCHENICAL PROPERTIES OF RU	BIDIUM AND CESIUM N63-17860 16-17	RUNWAY, TAXIWAY, AND PARKING RAMP ROUGHNESS DATA -
UNY TOTAL BESTORE ALTOCALES	10-17	SURVEYS AT AIR FORCE BASES WAOD-TR-60-470, PT. 3 N63-20490 20-10
OBSERVING LASER ACTION FROM THE AFCRL-62-716	N63-11035 03-23	SNOW STABILIZATION FOR ROADS AND RUNWAYS N63-22179 23-10
	PALMON - RREBUNHS	A STREET, A SHE IN PLOTE TO THE

5 --23 -25

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-10 -10

NUPTURE SA STRESS RUPTURE MANAGED DE LA CAMBRIA DE LA CAMB	S-6 SATELLITE S6 SCIENTIFIC SATELLITE AND MEASUREMENT OF ATMOSPHERIC PARAMETERS, ELECTRON DENSITY AND TEMPERATURE - PRESSURE & MAGNETIC FIELD VARIATION AAS-62-81 N63-13738 08-32
CF RECHANICAL PROPERTY TRANSVERSE RUPTURE STRENGTH OF ALUMINA FIBER- CERANIC COMPOSITE VAL-TR-971/53 N69-11233 03-18	ATHOSPHERIC STRUCTURE SATELLITE /S-6/ DESCRIPTION AND PURPOSE N63-14101 09-32
WAL-TR-971/53 N69-11233 09-10 HIGH TEMPERATURE REACTOR MATERIALS - SYRESS- RUPTURE TESTS - RADIATION EFFECTS	MISSION AND DESIGN CONSIDERATIONS OF THE AERONOMY SATELLITE S-6 N63-23414 24-32
REPUBLISH THE TESTS - RADIATION EFFECTS N63-12493 06-33	S-27 SATELLITE S ALOUETTE SATELLITE AND YTTANDETHAL AND TENTE
TESTING AT 1200-DEG F N63-13237 07-33	S-46 SATELLITE JUND IT PROGRAM - S-46 SATELLITE MASA-TH-0-608
N63-13293 07-33	S-40 SATELLITE
CONTROLLED ENVIRONMENTS OF NITROGEN AND A VACUUM	S-48 - UPPER IONOSPHEAE N63-23416 24-12
SURVEY OF 21 REACTOR VESSELS IN LIGHT OF	S-66 SATELLITE MASA TO LAUNCH POLAR ORBIT IONOSPHERE BEACON SATELLITE S-66 N63-19158 18-32
ANTICIPATED EFFECTS OF NEUTRON IRRADIATION ON BRITILE-RUPTURE PROPERTIES OF STRUCTURAL MATERIALS TIO-17682 N63-14630 10-33	S-74 SATELLITE S INTERPLANETARY MONITORING PLATFORM & /IMP-A/
HIGH TEMPERATURE CREEP RUPTURE CHARACTERISTICS OF UMALLOYED MOLYBDEHUM FORGINGS PRODUCED FROM ARC- CAST AND PRESSED-AMO-SINTERED MATERIALS	SACCHARIDE S PHYTOLIPOPOLYSACCHARIDE
N63-19612 19-33 VACUUM EFFECT ON CREEP-RUPTURE PROPERTIES OF SINTERED AND COMMERCIAL ALUMINUM	SACRAMENTO PEAK SACRAMENTO PEAK FLARES — PART IV, FILAMENT DISAPPEARANCES, FLARE SPRAYS AND LOOP PROMINENCES GRD RES. NOTES-58
MRL-5948 N63-20671 20-16 TITANIUM REACTIVITY WITH GASEOUS NITROGEN	SAFETY SEETY WARRENT TANDERS WARRENT VARIABLE
TETROXIDE UNDER SEVERE CONDITIONS OF TENSILE RUPTURE ONIC-MEMO-173 M63-22017 23-18	CF HAZARD SPEED AND SAFETY IN CIVIL AVIATION WGL PAPER-7 N63-10006 01-04
CONSTANCY OF TANGENTIAL RUPTURE IN RAREFIED PLASMA FTD-TT-63-182/162 N63-23734 24-24	AUTOMATIC STABILIZATION AND SAFETY OF WIOL
AUTHERIUM	WGL PAPER-31
SOLUTION - CHEMICAL ANALYSIS OF RHODIUM, PALLADIUM AND RUTHENIUM	FIRE EXTINGUISHERS, SAFETY, AND DETONATION SUPPRESSION ASD-TDR-62-526 N63-10149 01-26
AUTILE SHEART FARING SHEET REQUIREMENTS	SAFETY OF HIGH-PRESSURE DXYGEN SYSTEMS FOR LIFE SUPPORT IN AEROSPACE VEHICLES
CF PIGNENT DISLOCATIONS IN RUTILE REVEALED BY THE ETCH-PIT TECHNIQUE N63-12006 05-19	AMRL-TDR-62-102 N63-10451 01-16 BERYLLIUM - TOXICOLOGY, LABOR HYGIEME, SAFETY
ISOMORPHIC AND NORPHOTROPIC RELATIONSHIPS IN GAIDES OF TITANIUM DIOXIDE TYPE INCLUDING	JPRS-16496 N63-10540 01-16 PILOT ERROR - REDUCIBLE AIR TRAFFIC RISK
ANATASE AND BROOKITE RUTILES - CRYSTAL STRUCTURE N63-15110 11-07	00-81: Cleaf-Sant DISTRIPLES N63-10584 to 02-14
EFFECT OF CHEMISORBED OXYGEN ON PHOTOCONDUCTIVE PROCESS IN RUTILE N63-16172 13-25	REMOTE HANDLING TECHNOLOGY AND EQUIPMENT SURVEY, AUTOMATION, MASTER-SLAVE HANIPULATORS, ENVIRONMENTAL PROTECTION
ACES BONES - ZAM S'IN 19 LOCKDHAFA M ASANY	AFSWC-TOR-62-117 N63-10670 02-17 ELECTROEXPLOSIVE DEVICES - SAFETY
S-BAND WAVEGUIDE SWITCHING CIRCUIT IN SLOTTED ANTENNA -	AMC-RK-TR-62-10 N63-10748 02-17
X-BAND AND S-BAND AFCRL-63-138 N63-17487 16-09	PREVENTION MEASURES FOR RADIATION SAFETY JPRS-14449
S-BAND LOW-NOISE PERIODIC PERMANENT MAGNET TRAVELING WAVE TUBE - ELECTRON BEAM FOCUSING RADC-TOR-63-172 N63-18628 17-09	INTERNATIONAL TRANSPORTATION OF LARADIATED REACTOR FUELS - LEGAL, ECONOMIC AND SAFETY ASPECTS EUR-112.E,F, VOL. 3 N63-11768 04-26
S-MATRIX PMYSICS REPORT - BUBBLE CHAMBER, PARTICLE THEORY, PION, MEAVY ION, S-MATRIX, ATOMIC BEAMS, SCATTER,	COMBUSTION AND DETONATION HAZARDS OF LIQUID HYDROGEN IN RED FACILITIES ASD-TOR-62-1027 N63-11878 04-26
X-RAY STUDY, INTERACTIONS UCRL-10572 N63-14080 09-23	SOVIET PSYCHOLOGICAL REPORTS - SAFETY, CYBERMETICS AND COMPUTER ANALYSIS OF ELECTROPHICEPHALOGRAMS
NONADIABATIC THEORY OF ELECTRON HYDROGEN SCATTERING APPLIED TO S-MAYE SCATTERING OF	JPRS-17219 N63-11934 04-14 SAFETY RULES FOR WORKING MITH RADIGACTIVE
POSITRONS BY ATOMIC ENERGY HASA-TH-D-1849 N63-18660 17-23	MATERIALS AEC-TR-5445 N63-11936 04-16
	SAFETY INVESTIGATION OF GELLEG PROPELLANT FOR

MINIMIZING SOLID PROPELLANT INITIATION HAZARDS DURING FABRICATING PROCESSES	LIQUID ROCKET RTD-TDR-63-1069 N63-22727 23-26
ABL/Z-48 M63-12255 05-17 SAFETY OF PERSONNEL ENGAGED IN DIAGNOSIS AND	SPATIAL DISORIENTATION, PILOT PERFORMANCE AND AIRCRAFT SAFETY N63-23658 24-14
TREATMENT OF THYROID GLAND BY IODINE-131 N63-12392 06-16 UPGRADING ANALOG COMPUTER ANALYSIS OF SAVANNAH	SAFETY DEVICE IMPACT ACCELERATION STRESS - 1961 NAS SYMPOSIUM NAS-NRC/PUB-977 N63-12844 07-14
NUCLEAR SHIP REACTOR POWERPLANT BAW-1260 N63-12457 06-20	A 60-G AIRCREW RESTRAINT SYSTEM - IMPACT STUDIES
STRUCTURAL INTEGRITY OF SHIPPING CONTAINERS FOR	N63-12867 07-16
RADIOACTIVE MATERIALS - TRANSPORT OPERATIONS AND CONTAINER CONSTRUCTION N63-12661 06-34	HUMAN CRASH STUDIES, IMPACT STUDIES, ACCELERATION STRESS, AUTOHOBILE AND AIRCRAFT ACCIDENTS, SAFETY DEVICES N63-12874 07-16
MIDAIR VISUAL COLLISION AVOIDANCE DATA APPLIED TO HIGHWAY SAFETY N63-12823 06-14	LONG-STRETCHING BODY RESTRAINTS - SEAT BELT, ACCELERATION STRESS, AUTOMOBILE ACCIDENT, SAFETY BELT N63-12875 07-86
AIRSPACE UTILIZATION SYSTEM INVOLVING BEACON PROJECT - AIR TRAFFIC CONTROL, SAFETY N63-13358 08-01	ELECTRICAL AND FIRE CONTROL SYSTEMS OF XH-3 ROCKET MEAPON SYSTEM FOR UH-1B HELICOPTER
STATISTICAL METHODS FOR PREDICTION OF SAFE	RG-TR-62-6 N63-13411 Q8-04
AIRCRAFT FATIGUE LIFE RAC-1147 W63-13745 08-33	AEROSPACE SAFETY DEVICES OF SMAP PROGRAM NAA-SR-7797 N63-14724 11-06
SAFETY AND REPAIR RATE WITH REGARD TO FATIGUE IN CIVIL AIRCRAFT STRUCTURES M63-13972 09-04	EXPLOSIVE DEVICE WITH 1-AMP/1-WATT SAFETY - HOT-WIRE AND EXPLODING CONDUCTOR
301AMH2242Y304H41301YH4 2	N-106-210 N63-14900 11-15
EFFECT OF ALTIMETER-SYSTEM ACCURACY ON AIRCRAFT COLLISION PROBABILITY NASA-TN-0-1627 N63-14274 10-22	PLASTIC MATERIAL USED AS SAFETY CONTAINERS - POLYETHYLENE CONTAINERS NAVMEPS-8030 N63-17066 15-19
AIRCRAFT SAFETY IN OVER-WATER FLIGHTS - TEN YEAR STUDY N63-14297 10-04	SAFETY DEVICES FOR MERCURY PROJECT - MANNED SPACE FLIGHT N63-17406 13-30
NAVY PROGRAM - RADIO ASTRONOMY - FRACTURE SAFE DESIGN OF STEEL STRUCTURE - PROGRESS REPORT N63-14736 11-05	ROBERTSHAM-FULTON TYPE 20004 REGULATOR PERFORMANCE IN PROVIDING AUTOMATIC SAFETY PRESSURE IN PRESSURE ECONOMIZER SYSTEM
NEW PRINCIPLES FOR FRACTURE-SAFE DESIGN OF STEEL	FPRC/MEMD185 N63-20076 20-17
STRUCTURES N63-14738 11-34 LIQUID HYDROGEN - DANGERS OF EXPLOSION AND OTHER	HUMAN TOLERANCE TO SHOCK TYPE DECELERATION FORCES – SHOCK TESTING OF SAFETY BELTS FOR AUTOMOBILES AND AIRCRAFT
RELATED SAFETY HAZARDS TO PERSONNEL BHRI-5707 N63-14981 11-13	DVL-266
AEROSPACE MEDICINE AND BIOLOGY - BIBLIOGRAPHY ON PHYSIOLOGY, PSYCHOLOGY, PHARMACOLOGY, TOXICOLOGY, SAFETY, AND LIFE SUPPORT SYSTEMS N63-15258 12-16	SAFETY FACTOR SINULATION FACILITY FOR THE DIGITAL IMPACT PREDICTOR - FLIGHT SAFETY REQUIREMENTS FOR BALLISTIC ROCKET FIRING PAD-72 N63-23705 24-00
MISSILE SYSTEM SAFETY - AN EVALUATION OF SYSTEM	SAGE AIR DEFENSE SYSTEM
TEST DATA /ATLAS MA-3 ENGINE SYSTEM/ R-5135 N63-15902 13-14	FIELD SURVEY OF SELF-TUTORING COURSE FOR ON-SITE
CRASH-FIRE PREVENTION SYSTEM FOR SUPERSONIC COMMERCIAL TRANSPORT N63-16413 14-06	TRAINING IN SAGE AN/FST-2 MAINTENANCE MATRIX-62-11 N63-13164 07-08
FLIGHT SIMULATOR TESTS FOR ALTITUDE MEASUREMENT — LIGHT COOING SYSTEM ON AIRCRAFT FOR PREVENTION OF MID-AIR COLLISIONS M63-17952 16-14	SAHA EQUATION SPECTROSCOPIC MEASUREMENTS ON MAGNETICALLY COMPRESSED HIGH TEMPERATURE PLASMAS - BOLTZMANN FACTORS & SAHA EQUATIONS
RADIATION MEDICINE - HOSPITAL DISASTER PLANS - THERAPY N63-18237 17-16	AFCRL-63-851 N63-22898 23-24 SAIL
SAFETY - RADIATION, VENTILATION, & REACTOR HAZARDS	LIFTING SURFACE FOR REENTRY VEHICLES - FLUTTER OF SAILS HAVING DELTA WING PLANFORMS
CONTROL UCRL-7254 N63-19640 19-16	MASA-TH-X-355 N63-14772 11-33
	SATEPLANE AND A THOMPSON THE TRANSPORT OF THE TANK
SAFETY BOLT FOR AIRCRAFT PIVOT JOINTS SPS-977 N63-19745 19-17	INVESTIGATION OF AIR CURRENTS PREVALENT AT ALPIME FOOTHILLS IN THE LIGHT OF AIDING SAILPLANE PILOTS N63-13855 13-12
PATHOLOGICAL EFFECTS OF COMBINED X-RAY RADIATION 6 ELECTROMAGNETIC FIELD UNDER INDUSTRIAL COMDITIONS JPRS-20872 N63-20696 21-16	STATIC VIBRATION TESTS OF SAILPLANES WITH ELECTRONIC MEASURING APPARATUS
POWER FROM ISOTOPES - SNAP PROGRAM - ISOTOPES IN	N63-22270 23-0
SPACE, EARTH ISOTOPE GENERATORS AND SAFETY N63-21476 22-29	SAINT ELMO FIRE CF ELECTRIC DISCHARGE
AEROSPACE NUCLEAR SAFETY FOR SNAP PROGRAM -	SALMONELLA MACCHILLAN MOSTORUS ED VADORET STYLARATORNOS
REENTRY, IMPACT, AND HAZARDS NAA-SR-8303 N63-22359 23-16	MECHANISMS OF INFECTION WITH SALMONELLA IN MICE KEPT AT LOW TEMPERATURES
SAFETY INVESTIGATION OF GELLED PROPELLANT FOR	AAL-TDR-62-7 N63-21400 22-14

23-26 24-j4

UM 07-16

TES 07-16 TION FETY 07-16

TY 07-06

1-04

1-15

S-19 ACE 5-30 ANCE SURE 0-17

1-04

F-00

1-24 OF -33

NE TS -12

-16

CAYOGENICS AND MAGNETO-OPTICS - CADMIUM SULFIDE AND ZINC SULFIDE ARL-62-433 N63-11539 03-23	AUTOMATED NEUTRON ACTIVATION ANALYSIS - SAMPLING - CONTAMINANTS TEES-2671-2 N63-12076 05-20
FUSED-SALT ELECTROLYTES FOR REFINING TUNGSTEN -	PROBABILISTIC NETWORK STUDY - SYSTEM RELIABILITY AFCRL-62-724 N63-13153 07-09
INPURITY REMOVAL BH-RI-6154 FUSED SALT ELECTROLYSIS OF LOW GRADE TUNGSTEN ORE	GAS CHROMATOGRAPHIC MEASUREMENT OF TRACE CONTAMINANTS IN SIMULATED SPACE CABIN NASA-TN-0-1825 N63-13169 07-07
TO PREPARE CRUDE TUNGSTEN METAL FOR FURTHER ELECTROREFINING AN-RI-6161 N63-12407 06-07	SCREENING - PLANT AND ANIMAL BREEDING - SAMPLING MRC-368 N63-13333 08-20
HARE EARTH SALTS OF TRICARBALLYLIC ACID -	UNEQUAL PROBABILITY SAMPLING PROCEDURES AND
IS-657 N63-Z1013 21-19 CORROSION FATIGUE OF COMPRESSOR BLADES EXPOSED TO SALT SPRAY	AROD-2934-3 N63-13343 D8-20 PROBABILITY THEORY - POPULATION HEAN ESTIMATION USING RATIO AND REGRESSION IN MULTISTAGE SAMPLING
DF62SE106 N63-21440 22-33 MOLTEN SALTS - BIBLIOGRAPHY	RELATIVE EFFICIENCY OF SAMPLING METHODS OF
TID-3564/REV. 1/ N63-22219 23-23	POPULATION REAN AROD-2934-8 N63-13345 06-20
ALT BATH SALT BATH HEAT TRANSFER RATES FOR URANIUM PLATE - ANNEALING PROCESS TEMPERATURE DISTRIBUTIONS Y-1410 N63-12496 06-13	STATISTICAL ANALYSIS - ANALYSIS OF VARIANCE, REPEATED MEASUREMENTS DESIGN, DUAL CLASSIFICATION AND DISPROPORTIONATE SUBCLASS NUMBERS SAM-TDR-62-149 N63-13589 OB-20
EVALUATION OF PICKLING SOLUTIONS FOR SUPERALLDY IN VIRGO SALT BATH A067 N63-21875 22-18	CORRELATION OF BETA ACTIVITY AND STRONTIUM-90 IN AIR CONCENTRATIONS WITH NUCLEAR TESTING PATTERNS - EXPECTED RADIOACTIVITY LEVEL INCREASE
BRAZING OF TITANIUM WITH RAPID HEATING - SOLDERING OF TITANIUM ALLOYS DURING RAPID HEATING IN SALT DATHS JPRS-21437 N63-Z2966 23-18	N63-13600 08-23 INTERCALIBRATION OF MONITORING SYSTEMS FOR FISSION PRODUCTS IN ATMOSPHERE
MARIUM INTERFEROMETRIC MEASUREMENT OF THERMAL EXPANSION OF OXIDES OF YTTRIUM, CERIUM, SAMARIUM, EUROPIUM, AND OYSPROSIUM	PISSION PRODUCT RADIDACTIVITY IN ATMOSPHERE ALONG BOTH MERIDIAN DURING 1961 - AIR SAMPLING NRL-5869 NG3-14786 11-2
DM-RI-6180 N63-13148 07-23 ALLOYS OF RARE EARTH METALS - VAPOR PRESSURE, THERMODYNAMICS, METALLURGY, AND X-RAY DIFFRACTION OF PRASEDOYNTUM, NEODYNIUM, AND SAMARIUM	FACTORS FOR ONE-SIDED TOLERANCE LIMITS AND FOR VARIABLES SAMPLING PLAN - MATHEMATICAL TABLES FOR DISTRIBUTION FUNCTIONS SCR-607 N63-16782 14-2
ARL-63-15 N63-15549, 12-18 HIGH PURITY SAMARIUM, EUROPIUM AND GADOLINIUM ZONE	RELIABILITY MONITORING BY OPTIONAL STOPPING SAMPLING TECHNIQUE N63-17299, 15-2
REFINING AFCRL-63-36 14 MISING -3-193218 30 N63-16598 14-18	COMBINATION OF POPULATION SAMPLING WITH TIME SERIES ANALYSIS TO DEVELOP A FINITE POPULATION
MPLED DATA SERVOMECHANISHS — SAMPLED DATA SYSTEM STIMULATION AND VERTFICATION	THEORY AROD-2934-9 34 163-17385 15-2
RG-TR-63-5 9714 N63-12957 07-09	SAMPLE HOLDER FOR MICROPROBE AMALYSIS OF ROCKS EUR-252,F N63-17560 16-1
OPTIMIZATION OF MULTIVARIABLE SAMPLED-DATA CONTROL SYSTEMS PIBMRI-1078-62 N63-13159 07-09	STATISTICAL PROBABILITY FOR RELIABILITY OF SAMPLE LIFE - WEIBULL DISTRIBUTION
SYSTEM ANALYSIS OF SAMPLING DATA FOR RELIABILITY CONTROL NASA-CR-50311 N63-17207 15-17	SIZES OF SIMULATION SAMPLES REQUIRED TO COMPUTE CERTAIN INVENTORY CHARACTERISTICS WITH STATED PRECISION AND CONFIDENCE RM-3242-PR N63-19067 18-2
COORDINATE TRANSFORMATION IN INCREMENTAL PHASE PLANE - DESIGN OF LINEAR SAMPLED DATA CONTROL SYSTEMS NASA-CR-90457 N63-18256 17-09	UNEQUAL PROBABILITY SAMPLING THEORY AND TIME SERIES ASPECTS OF PANEL SURVEYS OF FINITE POPULATIONS
MPLING STABILITY OF SAMPLING-TYPE CONTROL CIRCUITS WGL PAPER-38 01-22	AROD-2934-13 N63-19086 18-2 GENERALIZED COMPOSITE AND MULTI-COMPONENT. ESTINATORS IN ROTATION SAMPLE DESIGNS USING
SAMPLING STUDIES DOWNSTREAM OF MYDROGEN-NITROUS OXIDE-DILUENT FLAMES	PROBABILITY THEORY AROD-2934-12 N63-19803 19-2
MASA-TH-D-1528 M63-10201 01-22 SAMPLING RATE AND ALIASING IN TIME-DIVISION	SAMPLING OF FINITE POPULATION OF UNEQUAL PROBABILITY DISTRIBUTION WITHOUT REPLACEMENT AROD-2934-2 N63-21695 22-2
TELEMETRY SYSTEMS ASD-TR-61-553 N63-10481 01-08	SAMPLING DEVICE CORRECTIONS FOR DIFFUSIVE SEPARATION OF A GAS
JPRS-16407 N63-10583 02-16	HE-150-206 NG3-10619 02-1
PROGRESSIVELY CENSORED SAMPLES IN LIFE TESTING AROD-2773-6 N63-11674 04-20	AIR PURIFICATION AND CONTROL IN NUCLEAR ASSEMBLE SUBMARINES - CARBON SAMPLING OF SUBMARINE THORAS

ATMOSPHERE N63-14935 11-16	ASO-TDR-63-559 M63-19866 15-13
ROCKET EXHAUST SAMPLING FOR TWO PHASE EXHAUST FLOW SYSTEMS	EQUATIONS GOVERNING FREE VIBRATIONS OF THICK, COMPOSITE, ORTHOTROPIC, CIRCULAR, CYLINDRICAL
MB3-14900 11-01	SANOWICH SHELLS RE-165 N63-20615 20-31
GAS SAMPLER FOR USE WITH IRRADIATED NUCLEAR REACTOR FUEL ELEMENT OF URANYUM OXIDE DP-014 N63-15557 12-15	NATURAL FREQUENCIES OF UNIFORM RECTANGULAR CROSS
AUTOMATIC SAMPLING DEVICE FOR COUNTING REACTOR IRRADIATED FOILS DP-821 N63-19634 19-09	NASA-TN-D-1967 N63-22897 23-13 SANITATION CF HEALTM
ELECTROSTATIC PRECIPITATOR FOR AEROSOL PARTICLE	CF HYGIENE
SAMPLING LF-7 N63-21378 22-07	SANTOWAK COOLANT IRRADIATION OF SANTOWAX OMP IN IN-PILE LOOP - PART 1, SUMMARY
ESTIMATION OF PARAMETERS IN MIXTURES OF DISCRETE DISTRIBUTION USING SAMPLE MOMENTS AND ZERO	MITME-51 MOS-12108 09-[3
FREQUENCIES - POISSON DISTRIBUTION N63-23426 24-20	IRRADIATION OF SANTOWAY OMP IN IN-PILE LOOP - PART 2. TESTS OF ORGANIC MATERIALS FOR USE AS COOLANTS IN NUCLEAR REACTORS
SAMOSTONE SAFET - CAR SAFET - COLOR	MITNE-22, 8K.I N63-12130 05-13
TEXTITES & FUSION OF SANDSTONE TO GLASS IN SOLAR FURNACE N63-14322 10-12	SPECTROGRAPHIC ANALYSIS OF METALLIC IMPURITIES IN SANTOMAX NT/CHI/62/13 N63-12447 06-01
SANOWICH CONSTRUCTION	
CONSTRUCTION NOSE CONES N63-10811 02-34	HIGH TEMPERATURE ELECTRON IRRADIATION TESTING OF ADDITIVE FOR REDUCTION OF RADIATION DAMAGE TO TERPHENYL USED AS ORGANIC COOLANTS - SANTONAX ONE
ELASTIC BUCKLING OF SIMPLY SUPPORTED CORRUGATED CORE SANDMICH CYLINDERS N63-10833 02-33	100-16839 M63-13653 08-07 ORGANIC COOLANTS FOR NUCLEAR REACTORS - SANTONAX
STABILITY OF HONEYCOMB SANDHICH CYLINDERS UNDER AXIAL COMPRESSION N63-10834 02-33	AND POLYPHENYL COOLANTS, RADIOLYTIC AND PYROLYTIC EXPERIMENTS IDO-16869 N63-18810 18-23
QUARTZ LAMP RADIANT HEAT BRAZING OF REFRACTORY METAL HONEYCOMB SANDWICH CONSTRUCTION IR-7-937A/1/ M63-11011 03-17	SAPPHIRE PROPERTIES OF RUBIES AND OTHER SAPPHIRES
CALCULATION OF VIBRATION IN SANDWICH CONSTRUCTION FROM DAMPING PROPERTIES OF CORES AND FACINGS	M63-13122 07-25 SUPERCONDUCTIVITY IN METALS AND ALLOYS - KAPITZA
FPL-1888 N63-11411 03-33	RESISTANCE MEASUREMENTS IN TIN AND INDIUM, ON TRANSITION CHANGE, AND SAPPHIRE INSULATOR
COMPRESSIVE AND SHEAR PROPERTIES OF CORRUGATED ALUMINUM FOIL SANDWICH CORES	ASD-TOR-62-1111
FPL-1889 M63-11412 03-33 OPTIMUM DESIGN OF SANDWICH PANELS UNDER COMBINED	DELAYED FAILURE OF POLYCRYSTALLIME AMD SINGLE CRYSTAL ALUMINA - SAPPHIRE N63-16396 14-33
LOADS N63-11654 04-34	REINFORCEMENT OF NICKEL-CHROMIUM ALLOYS WITH SAPPHIRE WHISKERS N63-20684 20-18
FLUTTER TESTS OF SANDWICH-TYPE FLAT PANELS AT SUPERSONIC SPEEDS NASA-HERD-10-17-58L N63-12500 06-33	SATELLITE SA ADVANCED ORBITING SOLAR OBSERVATORY /AGSG/
STRUCTURAL DESIGN OF SANDWICH PANELS FOR INCREASED RESONANCE FATIGUE LIFE BY DAMPING BENDING WAVES	SA AEROS SATELLITE SA ALOUETTE SATELLITE SA ANNA SATELLITE
ASD-TDR-62-1098 N63-13491 08-34 YIELD POINT LOAD OF CONICAL SANDWICH SHELL LOADED	SA ARIEL SATELLITE SA ARIEL I SATELLITE SA BEACON SATELLITE
AT VERTEX AND SIMPLY SUPPORTED DOMITT-1-22 N63-14468 10-33	SA BIOSATELLITE
TITANIUM TANKAGE DEVELOPMENT - BULKHEAD GORES AND BULKHEAD TOOLING - HOMEYCOMB SANOWICH CONSTRUCTION RTD-TOR-63-1023 N63-14619 10-17	SA COURTER SATELLITE SA DISCOVERER XVII SATELLITE
FATIGUE TESTING OF HONEYCOMB CORE SANDWICH	SA ECHO SATELLITE SA ECHO I SATELLITE SA EQUATORIAL SATELLITE SA EQUATORIAL SATELLITE SA EXPLORER SATELLITE
CONSTRUCTIONS ASD-TOR-61-338 N63-15839 13-33	SA EQUATORIAL SATELLITE SA EXPLORER SATELLITE SA EXPLORER I SATELLITE
LOW TEMPERATURE BRAZING ALLOYS FOR TITANIUM HOMEYCOMB SANOMICH MATERIALS ASD-TR-AL-313. PT. 11 N63-15878 13-18	SA EXPLORER III SATELLITE SA EXPLORER V SATELLITE
MULTIPLE LAYER INSULATION - SANONICH CONSTRUCTION	SA EXPLORER VII SATELLITE
N63-16055 13-17 CRITICAL BUCKLING PRESSURE CURVES FOR CYLINDERS OF	SA EXPLORER IX SATELLITE SA EXPLORER X SATELLITE
FINITE LENGTH WITH SANDWICH WALLS FPL-07 R63-17915 16-33	SA EXPLORER XII SATELLITE
METAL SANDWICH CONSTRUCTION - BIBLIOGRAPHY 58-62-8 N63-18123 16-34	SA EXPLORER XVI SATELLITE SA EXPLORER XVII SATELLITE SA GEODETIC SATELLITE
CONFIRMATION OF THERMOELASTIC EQUATIONS FOR	SA GEOPHYSICAL SATELLITE SA GRAVITY GRADIENT SATELLITE
SANDWICH PANEL DEFLECTION	SA INJUN SATELLITE

19-33

20-33 035

23-33

05-13

08-13 S IN

06-07 0F 09-07 08-07

0-23

17-25 ZA

0-18 4-33 0-18

	108-31-KT-40240	MASA-TN-D-1545
INJUN II SATELLITE INJUN III SATELLITE LARGOS SATELLITE HETEOROLOGICAL SATELLITE SATELLITE HETEOROLOGICAL SATELLITE	DECKER PARTY	SATELLITE COMMUNICATION SYSTEM EMPLOYING FREQUENCIES IN 15 TO 20-GC FREQUENCY RANGE N63-13072 D7-
NATURAL SATELLITE NIMBUS SATELLITE PASSIVE SATELLITE		ORBIT CHANGES OF CISLUNAR SATELLITE
S-A SATELLITE	NOE-12-147-1629)	ATMOSPHERIC SOUNDING BY SATELLITE MEASUREMENTS
S-46 SATELLITE S-48 SATELLITE S-66 SATELLITE	(A29-44-10-10)	STELLAR REFRACTION N63-13280 OT-
SCIENTIFIC SATELLITE	AVELITE IT	MASA CONSIDERS DATA COLLECTION SATELLITE SYSTEM OCEANOGRAPHIC & METEOROLOGICAL APPLICATIONS N63-13507 08-
SPUTNIK III SATELLITE SPUTNIK IV SATELLITE SPUTNIK V SATELLITE	12 8111/874 A14/11/8 X - 20	OPTICAL AND INFRARED PROPERTIES OF METALS - OPTICAL PROPERTIES OF SATELLITES NASA-TN-D-1523
SPUTNIK VIII SATELLITE SYNCHRONOUS COMMUNICATIONS /SYNCOM/ SYNCHRONOUS SATELLITE		ATTITUDE STABILITY OF GRAVITY-ORIENTED COMPOUND SATELLITE SYSTEMS - PART II, THEORY AND MOTION
TELSTAR SATELLITE TIROS SATELLITE TIROS I SATELLITE	TO STILLING	ORBITAL PLANE UTIA-89 N63-14355 10-
TIROS II SATELLITE TIROS III SATELLITE TIROS V SATELLITE	CHE-TO-HIT-HIS TH	AIR TRAFFIC CONTROL SYSTEM - AUTOMATIC CONTROL CENTERS FOR ENROUTE & SATELLITE COMPUTERS R-145 N63-14555 10-
IMENITALON HOOK SWIEFFILE	W THE TANK	INFRARED SPECTRAL ANALYSIS OF LUNAR SURFACE FROI DRBITING SPACECRAFT N63-14668 10-
VAMGUARD SATELLITE VAMGUARD II SATELLITE VAMGUARD III SATELLITE	NEW AND AREA	SATELLITE-TO-SATELLITE PROPAGATION - EFFECTS OF IONOSPHERE ON RADIO FREQUENCY ELECTROMAGNETIC
SPACE VEHICLE SPACECRAFT		MAVES AFCRL-63-4
MAYIGATION ERRORS OF THE INERTIAL GUI SATELLITE CARRIER ROCKETS IGL PAPER-39 N63-	-10035 01-	SATELLITE PLANISPHERE AND SATELLITE OBSERVATION TECHNIQUE 11-11-11-11-11-11-11-11-11-11-11-11-11-
APPLICATION OF THE MODULARIZATION CO	NCEPT TO	SATELLITE PLANISPHERE N63-15210 11-
	-10176 01-	
QUATORIAL ORBITS OF A SATELLITE IN TRAVITATIONAL FIELD OF A SPHEROID NG3-		PECASUS COMPUTER PROCRAM FOR PREPARATION OF
BANDARI E STRUCTURES SPACECRAET SI	GRANEAU MATE	MAC-111-3FACE-23
LLECTORS, RECOVERY C-R-77 N63-	-10951 02-	FRICTION MEASUREMENT ON LOW EARTH SATELLITE
ERMAL RADIATION INCIDENT ON AN EAR'S SA-TH-D-1524 N63-	-11121 03-	EXPOSURE OF EARTH SATELLITES TO ALBEOD AND PLANI RADIATION - SECONDARY RADIATION ENVIRONMENT AEDC-TOR-63-92
CRETS AND SATELLITES - DATA CATALON N63-	6 -11495 03-	TORQUE AND ANGULAR VELOCITY INDUCED BY GEORAGNE
ASHA CLOUD IN HOTION AS RADIO ENIT	TING SATELLI	FIELD ON A SPINNING CONDUCTING SATELLITE N63-16741 14-
TOWATIC CONTROL SYSTEM FOR TERMINAL	AS GRANATA	VEHICLES AND SATELLITES
	-11780 04-	SB-62-26 N63-17088 15-
MALYTIC REPRESENTATION OF MUSEN THE	LONGITUDE	ELECTROTHERMAL PROPULSION SYSTEMS N63-17185 15
ISA-TN-D-1468 N63- NGULAR ORBITS OF EARTH-HOON SATELLI EA-HASS RATIO O SPECIAL REPT107 N63-	ITES WITH HI	SPACE EXPLORATION & HUMAN BEHAVIOR - SPACE FLIG LUNAR MISSION, SPACE TECHNOLOGY, SATELLITES
THOCOMEDE MEACIMEMENTS BY MEANS DE		SPACE EXPLORATION BY SATELLITES - MANNED SPACE FLIGHT AND X-15 AIRCRAFT N63-17392 15-
CRL-62-1021 N63-	-12290 05-	METEOROLOGICAL STUDY OF COLD CLOUDS NITH SATELL
ROR STUDY OF ORBITAL PREDICTIONS -		ALIMATANA PORTE AND PERSONS AN
ID-TDR-63-189 N63-	NEXT THE SERVICE	DATA WATE DESCRIPTION OF THE PROPERTY IN STREET THE WORLD
ASA-SPONSORED SPACE RESEARCH - GEOD ELATIONSHIPS, MOON AND PLANETS, AND ATELLITE AND SPACE PROBE DATA REVIEW	ASTRONOHY -	17 07-10 22010-034
	-12841 06-	EARTH REFLECTED SOLAR RADIATION UPON SPINNING FLAY PLAYE ABOARD A SATELLITE MASA-TM-D-1842. N63-16131 16
DHER INPUT TO SHALL FLAT PLATE FROM		

NIMBUS SATELLITE - STABILIZATION AND CONTROL ALTITUDE SUBSYSTEMS FOR YAW, ROLL AND PITCH AXIS

SATE SATE

SA

SA

ROLE OF ARTIFICIAL SATELLITES IN ACCOMPLIS INTERPLANETARY FLIGHT N63-18436		NASA-TM-X-50366	N63-21992 22-32
BIOLOGICAL INVESTIGATIONS OF ANIMALS IN HI ALTITUDE ROCKETS AND SATELLITES	ІСН	SATELLITE SITUATION REPORT NASA-TH-X-50339	" N63-21993 22-32
N63-18438	17-16	SATELLITE SITUATION REPORT	N63-22000 22-32
PHILOSOPHY USED FOR CONDUCTING THERMAL-VAC TESTS OF UNMANNED EARTH SATELLITES NASA-TN-D-1748 N63-18656		SATELLITE SITUATION REPORT NASA-TM-X-50206	N63-22001 22-32
NASA POLICIES AND PROCEDURES FOR SATELLITE RELIABILITY THROUGH ENVIRONMENTAL TESTS —		SATELLITE SITUATION REPORT NASA-TM-X-50207	N63-22002 22-32
OF SATELLITE PROGRAM NASA-TN-D-1853 N63-18661	17-17	SATELLITE SITUATION REPORT	N63-22003 22-32
THERMAL-VACUUM ENVIRONMENTAL TESTING OF SA N63-18846		7 USA 200 VE. YOUT 2014.	N63-22004 22-32
EUROPEAN COOPERATION IN SPACEFLIGHT ENGINE EARTH SATELLITES, MANNED SPACECRAFT FOR EA ORBIT TRAFFIC - MANNED INTERPLANETARY SPAC N63-18916	RTH -		N63-22005 22-32
VISUAL SUBSYSTEM OF MERCURY CAPSULE - VISI	38.1773367	SATELLITE SITUATION REPORT NASA-TM-X-50203	N63-22006 22-32
ORBIT - VISUAL PERCEPTION PROBLEM N63-19247	18-14	SATELLITE SITUATION REPORT NASA-TH-X-50197	N63-22007 22-32
RING CURRENT - MEASUREMENTS MADE ON EARTH SATELLITES AND SPACE PROBES NASA-CR-50760 N63-19293	18-28	SATELLITE SITUATION REPORT NASA-TM-X-50198	N63-22008 22-32
UNITED STATES SPACE PROGRAM - LAUNCH VEHIC SATELLITES AND SPACECRAFT N63-19368		SATELLITE SITUATION REPORT NASA-TM-X-50200	N63-22009 22-32
SPACE SCIENCES FOR INTERPLANETARY TRAVEL - RADIATION, SATELLITES AND EXTRATERESTRIAL	LIFE	SATELLITE SITUATION REPORT NASA-TM-X-50196	N63-22010 22-32
N63-19621 STABLE PIGHENTS FOR LONG-RANGE SATELLITE C NASA-CR-50814 N63-19854	DATINGS	SATELLITE SITUATION REPORT NASA-TN-X-50364	N63-22169 23-32
CRITICAL INCLINATION THEORY OF EARTH SATEL	LITES -	SATELLITE SITUATION REPORT NASA-TH-X-50335	N63-22170 23-32
EXTENSION TO CASE OF ASYMMETRICAL POTENTIA MAIN BODY NASA-TM-X-50238 N63-19945	(C) (S) (S)	SATELLITE SITUATION REPORT	N63-22532 23-32
PROJECT CELESCOPE - ASTROPHYSICAL RECONNAI		RADIO OBSERVATIONS OF DOPPLER SOVIET ORBITING SATELLITES.	FREQUENCY SHIFT FROM
SATELLITE NASA-08-50820 NAS-19948		AFCRL-63-489	N63-22765 23-08
NOTES ON SATELLITES, SPACE NAVIGATION,	ON-INC	SIMULATION OF EARTHS ALBEDO AN	ED RADIATION ON
TRAJECTORIES, REENTRY, TRACKING AND COMMUN N63-20340		VL-2244-19-0	N63-22983 23-29
DRAG COMPENSATION, MEASUREMENT, AND REDUCT MANNED SATELLITES N63-20511		SATELLITE SITUATION REPORT MASA-TM-X-50910	N63-22013 24-32
SATELLITE COOLING DEVICE FOR INFRARED DETE ARRAYS AND SPACE RADIATORS	CTOR	NASA-TH-X-50613	N63-23016 24-32
SSD-TDR-63-243 N63-20704 TELESCOPE WITH CASSEGRAIN OPTICS - INFRARE		SOUNDING ROCKET AND SATELLITE DECEMBER 31, 1962	NA 3-22157 24-32
SPECTRUM AND POLARIMETRY STUDIES OF SATELL MOON. ASTEROIDS. AND PLANETS AFCRL-63-864 N63-20776	ITES.	PROJECT SCORPIO - A PROPOSED SIMPROVING ATLANTIC MISSILE RAN CALIBRATING OPERATIONAL MISSI	IGE ACCURACY AND LE RANGE SYSTEMS
SPACE DETECTION AND TRACKING SYSTEM /SPADA MATHEMATICAL MODEL TO DESCRIBE ORBITAL MOT EARTH SATELLITES		SATELLITE SITUATION - SATELLIT DECAYED SATELLITES	N62-22502 24-32
U-2202 N63-20998	21-32	DOUBLE ELECTRICAL LAYER AT SAT	CALTAG CORAN ASSE
ANALOG SIMULATION OF SATELLITE POWER SYSTE SYSTEM PROTECTION NASA-CR-50940 N63-21072		10NOSPHERE FTO-TT-62-1380/16264	1-51439 THIDSAN DAR
ORBITING SATELLITES AND SATELLITES WITH DE ORBITS - NAME, SOURCE, LAUNCH, MODAL PERIO	CAYED	ATTITUDE DETERMINATION FROM SI REFLECTION BY CYLINDRICAL SATE NASA-CR-52254	PECULAR & DIFFUSE
INCLINATION, APOGEE, AND PERIGEE NASA-TM-X-50372 N63-21250	21-32	BIBLIOGRAPHY - SOVIET SATELLIT	Chicky No. Contracts 52
THEORY OF CRITICAL INCLINATION OF CLOSE EASATELLITE	RTH	LS-BIB-63-1	N63-23707 24-32
NASA-TN-D-1858 N63-21344 SATELLITE SITUATION REPORT	21-29	SATELLITE ATTITUDE CONTROL ATTITUDE CONTROL OF SATELLITES PIBMRI-1079-62	MUNIN SCHINGING FREEZE
NASA-TH-X-50696 N63-21981	22-32	NIMBUS SATELLITE - STABILIZATI	

SATELLITE SITUATION REPORT THE CONTRACTOR OF THE

2-32 -32

-32

-32 -32

-32

-32

-32

-32

-32

-32

-32

-32

-32

-32 32

ON

29

32

32

32

28

32

12

12

MOTION EQUATIONS AND DESIGN OF SINGLE DEGREE	ARRETTC HA	ARTH SATELLITE CONTROL AND CONTI INNED SPACE ENVIRONMENT - CONNU IL-TDR-62-14	ROL SYSTEMS NICATIONS N63-10389	SERVICE CO.
PREEDON GYROSCOPES TO DAMPEN ATTITUDE ERROR OF EARTH-POINTING SATELLITES	BAYES	TELLITE BOOSTER CONTROL	N63-10390	01-31
8-398	CC CC	ONTROL OF REENTRY FROM ORBIT	TRUMENTATION	SME
GYROTHEDRY - DIFFERENTIAL EQUATIONS FOR SPIN ROTATIONAL SYMMETRIC SATELLITE ATTITUDE CONT ORA-63-6	19-32 SA	TELLITE INERTIA-WHEEL ATTITUDE	N63-10391 CONTROL ON N63-10392	
OPTICAL PICKOFF FOR SERVOMECHANISM USED ON SATELLITE ALTITUDE CONTROL SYSTEM RAE-TN-SPACE-17 N63-21162	21-04 ML	LIPTICAL ORBITS JETISATELLITE CONTROL PROBLEM	N63-10402	LA-U
SATELLITE ATTITUDE DISTURBANCE OF ATTITUDE	CA CC	APABILITIES OF ELECTRIC PROPULS ONTROL AND MAINTAINING STATIONA	OF TERRO VE	TUDE
SATELLITE COMMUNICATION	AF AF	STELLITES S PAPER-2666-62	N63-11270	
EARTH SATELLITE CONTROL AND CONTROL SYSTEMS MANNED SPACE ENVIRONMENT - COMMUNICATIONS MRL-TDR-62-14 M63-10389	01-01 A	NAMIC PROGRAMMING TO OPTIMIZE 24-HOUR COMMUNICATION SATELLIT RS PAPER-2695-62	ORBITAL CONT E N63-11277	222
THE CHALLENGE OF SPACE EXPLORATION N63-10495	01-29 AL	JTOMATIC CONTROL SYSTEM FOR TER		To Allera de
TELEPHONE TRANSMISSION SYSTEMS FOR SATELLITE N63-11353	UTNKS NA	ASA-TR-R-128	N63-11780	
NIMBUS SATELLITE AND ITS COMMUNICATION SYSTE NASA-TN-D-1422 N63-12125	M N/	TRETCH YO-YO THEORY AND SATELLI	N63-14404	10-29
SATELLITE COMMUNICATION SYSTEM EMPLOYING FREQUENCIES IN 13 TO 20-GC FREQUENCY RANGE	TO TO	PNAMIC ANALYSIS OF GRAVITY GRAD ITH PASSIVE DAMPING 5-502		
M63-13072 ANTENNA SPECIFICATIONS FOR SATELLITE COMMUNI M63-14955	CATION S	UTOMATIC ATTITUDE CONTROL SYSTE ATELLITE USING INERTIA WHEELS M EARINGS	OUNTED ON A	SANG.
SATELLITE COMMUNICATIONS - SENATE HEARINGS - SPACE LAW N63-15504	12-32 A1	EAKINGS ASA-TH-D-1969 IR FORCE SATELLIFE CONTROL FACI	LITY AND IT	22-32
LUNEBURG LENS - A PASSIVE REFLECTOR FOR SATE COMMUNICATION N63-17451	15-20 SF	OMPUTER PROGRAM SUBSYSTEM	N63-22731	23-30
SYNCHRONIZATION OF DECISION FEEDBACK SATELLI	ITE ST	LLITE DESIGN TABLE PIGHENTS FOR LONG-RANGE S ASA-CR-50814	ATELLITE CO	
MASA-CR-50610 M63-18318 SPUTNIK IV SATELLITE SYSTEMS ANALYSIS - LAUM FACILITIES, AIR CONDITION AND TEMPERATURE CO	ICHING SI	ISSION CAPABILITIES AND DESIGN	THE RESERVE THE PARTY OF THE PA	BRURLES
RELIABILITY CONTROL, TELEMETRY AND COMMUNICA N63-18449	17-32 54	ATELLITE DESIGN FOR NEASURING T	DOTTE S MANUAL	4760
SPUTNIK V SATELLITE SYSTEMS ANALYSIS - LAUNC ORBITING, DESCENT TRAJECTORY, FLIGHT CONTROL COMMUNICATIONS N63-18450	AND 17-32 SATE	AE-R-SPACE-1, HITTELERA NO MOTTAN	Sasturaut w	Total Lines
ESTIMATES OF MUTUAL INTERFERENCE BETWEEN SUR AND SATELLITE COMMUNICATION SYSTEMS	RFACES SI	THOSPHERIC DENSITY CALCULATED F ATELLITE IN A CIRCULAR ORBIT	OMNUATION TR	02-12
MULTIPLE ACCESS SATELLITE COMMUNICATION - OF	SATE	LLITE INSTRUMENTATION ATELLITE INSTRUMENTATION TESTED	RES SO PARY	OUND I NG
CONSTRAINTS, MODULATION AND MULTIPLEXING REQUIREMENTS, & CALLING TECHNIQUES	17-1	DCKET - ATMOSPHERIC DRAG TESTS	N63-14973	11-15
NASA-CR-52200 N69-23651 POWER AND BANDWIDTH REQUIREMENTS FOR MODULAT SYSTEMS FOR SATELLITE COMMUNICATIONS	TION OF	NGINEERING DESIGN OF ORBITING G BSERVATORIES TO MEET EXPERIMENT EQUIREMENTS	ORIENTATIO	11-32
NASA-CR-51993 N63-23817 ATELLITE CONFIGURATION ENGINEERING DESIGN OF ORBITING GEOPHYSICAL	OI OI	NGINEERING DESIGN OF ADVANCED OBSERVATORY SATELLITES - STABILI UN TRACKER INSTRUMENTATION	RBITING SOL	NTROL.
OBSERVATORIES TO MEET EXPERIMENT ORIENTATION REQUIREMENTS N63-15168 ENGINEERING DESIGN OF ADVANCED ORBITING SOLIOBSERVATORY SATELLITES - STABILIZATION & CO	11-32 EI	NGINEERING DESIGN OF ORBITING A BSERVATORY SATELLITES - OPTICAL ONTROL, ORIENTATION AND STABILI	STRONOMICAL SYSTEMS. T	HERNAL-
SUN TRACKER INSTRUMENTATION N63-15170 ENGINEERING DESIGN OF ORBITING ASTRONOMICAL OBSERVATORY SATELLITES - UPTICAL SYSTEMS, TO CONTROL, ORIENTATION AND STABILIZATION	11-32 SI IERHAL PI	CIENTIFIC SATELLITES - BIBLIOGR NSTRUMENTATION, METEOROLOGICAL ROPERTIES OF THE IONOSPHERE D-290800	APHY - SATELLITES. N63-16247	AND 13-32
N63-15172	11-32 2008	XPLORER XII SATELLITE INSTRUMEN NERGY SPECTRUM OF COSHIC RAYS	HER THING I	TUDY
GUIDANCE AND CONTROL - BLACK PRINCE PROJECT NGL PAPER-40 N63-10036	05-N	ASA-TN-D-1698	N63-16426	14-15

METEOROID SATELLITE, EXPLORER XVI, DATA TRANSMISSION & RESULTS N63-23359 24-X

INSTRUMENTS NASA-CR-50204	N63-17200	15-28	CHANGES IN SATELLITE ORBITS AND METEOROLOGICAL INSTAUMENTS CARRIED ON SATELLITES
MEASURING IDMIZING RADIATION N LUMINESCENT DOSIMETERS - SATEL INSTRUMENTATION	LITE		RAE-TRANS-1027 N63-16024 13-12 MEAR-EARTH CHARGED-PARTICLE BACKGROUNDS MEASURED WITH POLAR ORBITING SATELLITES
NRL-5938	N63-17591	16-15	UCRL-6693 N63-16034 13-11
SCANNING SPECTROMETER WITH RAN ANGSTROMS FOR ORBITING SOLAR O	DESERVATORY	7113	VAN ALLEN BELT PROTON FLUX MEASUREMENTS FROM SATELLITES MSC-2-08-62-2
the parties on hearth for	N63-18354	17-15	LMSC-2-08-62-2 N63-16335 13-21
CADMIUM SULFIDE RADIATION DETE	N63-20466	LLITES 20-32	ATMOSPHERIC RADIATIVE TEMPERATURE - FEASIBILITY & MAKING TEMPERATURE MEASUREMENTS WITHIN EARTH ATMOSPHERE FROM SATELLITE
METEOROLOGICAL SATELLITE INSTR PHYSICAL MEASUREMENTS	UMENTATION -		SP-206 N63-16497 14-12
NASA-RP-29	N63-21368	22-29	ASTRONOMY AND PHYSICS OF METEORS - RADIO ECHO OBSERVATIONS AND SATELLITE MEASUREMENTS
WEATHER SATELLITE SPECTROMETER ELECTRO-OPTICAL INSTRUMENTATIO		WO	N63-16627 14-q
BEC-4696	N63-21387	22-21	ROCKET AND SATELLITE MEASUREMENTS OF METEORITIC DUST N63-16640 14-19
SATELLITE INTERCEPT AND RENDEZ	VOUS PROBLEMS		SATELLITE MEASUREMENT OF METEORITIC COSMIC DUST
SOLVED BY DYNAMIC PROGRAMMING	M63-18071	16-30	EXPLORER I N63-16641 14-11
SATELLITE LAUNCHING SYNCHRONOUS COMMUNICATION SATE	LLITE - SECON	0	PRELIMINARY SOLAR FLARE OBSERVATIONS WITH SOFT X-RAY SPECTROMETER ON ORBITING SOLAR OBSERVATORY SATELLITE
SYNCOM SATELLITE LAUNCHING	N63-19137	18-32	NASA-TM-X-50023 N63-16708 14-21
LAUNCH WINDOWS FOR HIGHLY ECCE ORBITS	1812-1 1111-24		TESSERAL HARMONICS OF GRAVITATIONAL FIELD AND GEODETIC DATUM SHIFT DERIVED FROM CAMERA
AIAA 63-412	N63-20135	20-29	OBSERVATIONS OF SATELLITES NASA-TN-D-1848 N63-16994 15-12
SATELLITE LIFETIME EXPONENTIAL RELIABILITY TABLES LIFETIMES AND OTHER APPLICATION	- SATELLITE	20-01	STRUCTURAL ANALYSIS OF UPPER ATMOSPHERE FROM ROCKET AND SATELLITE MEASUREMENTS OF CHARGED PARTICLES N63-17106 15-12
THE STATE OF THE STATE OF THE STATE OF	A 4 COLOR 6 A 21 C	20-01	11-24-2 krist (-4 km)
ORBITAL SPACE FLIGHT - TRAJECT ORBITAL MECHANICS, PERTURBATIO RENDEZVOUS AND SATELLITE LIFET	INS, HANEUVERIE		MEASUREMENT OF INTERPLANETARY DUST BY SATELLITES AND SPACE PROBES N63-17107 15-23
NASA-SP-33, PT. 1 EARTH SATELLITE LIFETIMES - EF	N63-21101	21-32 UDE •	COMPARISON OF SATELLITE MEASUREMENTS, LUMAR, AND GEODETIC SURVEYING METHODS FOR DETERMINING GEODETIC PARAMETERS N63-17110 13-12
ORBIT-PLANE INCLINATION, AND P	PERTURBATION FO N63-21323	ORCES 21-32	VAN ALLEN BELT - INNER BELT RADIATION DATA FROM ION CHAMBER AND GEIGER COUNTER ABOARD EXPLORER VI
SATELLITE MEASUREMENT DATA ACQUISITION FROM SPACECRA MASA-SP-16	FT N63-11506	03-20	SATELLITE N63-17190 15-12 DENSITY MEASUREMENTS FROM AIR FORCE SATELLITE -
SATELLITE OBSERVATION OF ARTIF		233	IONIZATION GAUGE
BELT, JULY 1962	N63-13823	09-28	IONOSPHERE ANALYSIS USING LOW FREQUENCY METHOD BY
RELATIONSHIP OF EARTH FLATTENI POTENTIAL HARMONICS AND SATELL TH-18			ROCKETS OR SATELLITES N63-18305 17-12 OBSERVATION OF SOLAR COSMIC RAYS FROM OCTOBER 1999
ANALYSIS OF PRELIMINARY EXPLOR	ER XVII DATA -	1,2516.1	TO FEBRUARY 1961 WITH EXPLORER VIII NASA-CR-50421 N63-18319 17-8
DISCOVERY OF NEUTRAL HELIUM BE ATMOSPHERIC DENSITY AND ELECTR			SATELLITE MEASUREMENT OF SPACE RADIATION NEAR EARTH AND IN COSMIC SPACE N63-18443 17-29
CHANGE IN BOUNDARY OF OUTER RA FOLLOWING MAGNETIC STORM OF SE EXPLORER VII DATA ON TRAPPED E SUI-63-7	PTEMBER 30, 19		SATELLITE MEASUREMENT OF IONIZED GAS IN INTERPLANETARY SPACE AND EARTH ATMOSPHERE USING ION TRAPS N63-18444 17-24
OBJECTIVES OF ORBITING GEOPHYS	ICAL OBSERVATO	DRY	MEASUREMENT OF MAGNETIC FIELD NEAR EARTH AND MOIN NG3-18445 17-13
SATELLITES - ECCENTRIC ORBITING MISSIONS	G & POLAR ORBI N63-15167	11-32	ATMOSPHERIC RADIATION - SATELLITE MEASUREMENT OF INFRARED RADIATION N63-18477 17-21
OBJECTIVES OF ORBITING SOLAR OF RESULTS, ADVANCED OSO I /HELIO HISSION			INTERPRETATION OF RADIATION MEASUREMENTS FROM TIROS III METEOROLOGICAL SATELLITE & MATER VAPOR MEASUREMENTS N63-19616 19-8
OBJECTIVES OF ORBITING ASTRONO			THE RESIDENCE OF THE STREET, THE STREET, THE STREET, S
SATELLITES - CONTINUOUS ULTRAY MEASUREMENT OF CELESTIAL RADIA		HAP	ATMOSPHERIC OZONE HEASUREMENTS FROM POLAR ORBITING SATELLITE TOR-169/3260-50/TN-3 N63-20307 20-11
SPACE SCIENCE - SATELLITE OBSE	MATERIAL R. C.	ACCE.	BOCKET & SATELLITE ASTRONOMY BESEARCH FACILITY
SOLAR COSMIC RAYS - EXPLORER 7			ROCKET & SATELLITE ASTRONOMY RESEARCH FACILITY N63-23077 24-21
			HETEROPES CAMELLAND CAME CAPE VILL SAVA

DETERMINATION OF UPPER ATHOSPHERE DENSITY FROM

AL

URED

13-28

13-21

ITY IN

14-12

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4-32

1

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SAT

SUMMARY OF REPORTS ON LUMAR EXPLORATION ASTRODYMANICS, AND SPACE VEHICLE RECOVERY M63-12149 05-32

SATELLITE DRBIT COMPUTATION PROGRAM FOR IZSAK SECOND-DRDER SOLUTION OF VINTI DYNAMICAL PROBLEM MASA-TH-D-1539 N63-12920 07-29

EARTH-REFLECTED SOLAR RADIATION ON SPHERICAL

GEOMAGNETISH - ROLE OF GRAVITATIONAL AND MAGNETIC FIELDS IN SPACE AND EARTH CORE CURRENTS - USE OF SATELLITES IN ELECTROMAGNETIC MAPPING	SATELLITE PLANISPHERE AND SATELLITE OBSERVATION M63-15209 11-32
N63-23441 24-12	EARTH SATELLITE OBSERVATION TECHNIQUES
IONOSPHERE - ELECTRON DENSITIES IN D-, E-, AND F- LAYERS RELATED TO RADIO COMMUNICATION - USE OF RADAR AND TOPSOUNDING SATELLITE MEASUREMENTS M63-23442 24-12	SPACE COMMUNICATIONS TECHNIQUES - OBSERVATION OF SATELLITES BY RADAR TRACKING PCE-R-9854A N63-13696 12-08
ORIGIN OF AURORA - REVIEW OF HYPOTHESES AND PLANNED SATELLITE AND SPACE PROBE EXPERIMENTS M63-23443 24-12	SMITHSONIAN INSTITUTE FACILITIES FOR SATELLITE OBSERVATION AND TRACKING N63-16361 14-08
GEOMAGNETICALLY TRAPPED PARTICLE INTENSITIES, FLUCTUATIONS, DISTRIBUTIONS, AND SOURCES FOR INNER AND DUTER RADIATION BELTS - SATELLITE MEASUREMENTS N63-23447 24-28	GODDARD SPACE FLIGHT CENTER CONTRIBUTIONS TO COSPAR MEETING - SATELLITE OBSERVATIONS AND MEASUREMENTS NASA-TN-D-1669 M63-17105 15-29
INTERPLANETARY MEDIUM DATA FROM SATELLIYES & SPACE PROBES — GALACTIC COSMIC RAY INTERACTION WITH SOLAR MAGNETIC FIELD — SOLAR PLASMA FLOWS NG3-23448 24-29	CATALOG OF SATELLITE OBSERVATIONS - DRBITAL ELEMENTS OF ECMO I SATELLITE, ECMO I ROCKET, AND EXPLORER VIII SATELLITE SAO SPECIAL REPT115 M63-17211 15-32
TELLITE MAVIGATION SYSTEM LONG RANGE NAVIGATION - VERY LOW FREQUENCY RADIO SYSTEMS, SATELLITE NAVIGATION SYSTEMS, MAGNETIC COMPASSES, INERTIAL MAVIGATION AND GYROSCOPES M63-14803 11-22 LONG RANGE NAVIGATION SYSTEMS - VERY LOW FREQUENCY RADIO, INERTIAL, AND SATELLITE NAVIGATION SYSTEMS M63-14804 11-22 TELLITE METMORK	BIBLIOGRAPHY - SOVIET SATELLITES AND SPACE SHIPS SATELLITE OBSERVATIONS, MEASUREMENTS AND PHOTOGRAPHY - MANNED SPACEFLIGHT EXPERIMENTS NASA-18455 17-32 CATALOG OF PRECISELY REDUCED SATELLITE OBSERVATIONS NASA-CR-50738 NASA-18095 18-29 SATELLITE OBSERVATIONS OF SPACE PHENOMENA - MERCURY PROJECT NASA-21970 22-29
ARC JET PROPULSION SYSTEM IN PERFORMANCE OF SATELLITE DISTRIBUTION, MAINTENANCE, AND REPAIR FUNCTIONS ON 62-126 N63-15682 12-27	SATELLITE DRBIT CF PERTURBATION ANALYSIS NUCLEAR PROPULSION FOR ORBIT-BASED SPACECRAFT N63-10383 01-27
AUTOMATED SATELLITES OF UNITED STATES N63-21922 22-32	SCHROEDINGER SEPARABILITY APPLIED TO SATELLITE ORBIT THEORY APGC-TDR-62-67
PELLITE OBSERVATION SATELLITE ORBITAL DATA OF VANGUARD III SAO SPECIAL REPT103 N63-10508 01-29	CALCULATION OF THE ECLIPSE FACTOR FOR ELLIPTICAL SATELLITE ORBITS NASA-TN-0-1347 N63-10496 01-29
CATALOG OF PRECISELY REDUCED OBSERVATIONS OF VANGUARD II SAO SPECIAL REPT102 N63-10509 01-29	VARIATIONS IN SATELLITE ORBITS - ZONAL HARMONICS SAD SPECIAL REPT101 M63-10510 01-29
SOVIET ANALYSIS OF OBSERVATIONS OF SPUTNIK III DERIVATION OF ORBITAL ELEMENTS RAE-TRANS-998 N63-11917 04-08	RELIABILITY MODEL AND ANALYSIS FOR PROJECT MERCURY 3-ORBIT MANNED AND UNMANNED MISSION MASA-TM-0-1558 M63-10536 Q1-32
PRECISELY REDUCED OBSERVATIONS OF VANGUARD II AND VANGUARD III - JANUARY TO JUNE 1960 SAO SPECIAL REPT106 N63-12116 05-05	GUIDANCE PERTURBATIONS FOR A LOW-THRUST MARS ORBIT MISSION USING SNAP-8 MASA-TN-0-1433 N63-10734 02-22
ANALYTIC SOLUTION FOR ATMOSPHERIC DENSITY FROM SATELLITE OBSERVATIONS OF STELLAR REFRACTION N63-13091 07-12	ABORT FROM A MANNED LUNAR LANDING AND REYURN TO RENDEZYOUS IN A 50-MILE ORBIT NASA-TN-D-1514
INJUN I SATELLITE OBSERVATIONS OF SOLAR PROTONS AND MAGNETIC STORMS N63-13317 07-28	HEATING UPON ENTRY INTO PLANETARY ATMOSPHERES FROM SUPERCIRCULAR ORBITING VELOCITIES
SATELLITE OBSERVATIONS OF ECHO-I AND DISTURBANCES IN MOVEMENT NA3-13352 08-29	N63-11071, 03-33 THE ORBIT OF EXPLORER VI - A YEST OF THE DYNAMIC
SATELLITE OBSERVATIONS - EXPLORER 1, VANGUARD 11,	MODEL ATMOSPHERE ARS PAPER-2622-62 M63-11256 03-29
VANGUARD II ROCKET, VANGUARD III, AND EXPLORER VII SAO SPECIAL REPT96 M63-13475 08-32	EFFECT OF LUNAR ORBIT RENDEZVOUS CONCEPT ON TESTS.
RADAR PRECIPITATION ECHO AND SATELLITE CLOUD OBSERVATIONS OF MARITIME CYCLONE N63-13546 08-21	OPERATIONS AND SUPPORT PROBLEMS OF LUMAR, EXPLORATION ARS PAPER-2686-62
CORRELATION OF TIROS I CLOUD OBSERVATIONS WITH SYMOPTIC SCALE RADAR OBSERVATIONS OF PRECIPITATION AFCRL-63-223 N63-13560 08-21	DYNAMIC PROGRAMMING TO OPTIMIZE ORBITAL CONTROL IN A 24-MOUR COMMUNICATION SATELLITE ARS PAPER-2695-62 M63-11277 03-22
APCAL-63-223 N63-13560 N63-13560 OB-21	SUMMARY OF REPORTS ON LUMAR EXPLORATION

PO-ANG -DI

N63-15107 11-32

MAGNETIC FIELD OF LOW ENERGY PROTON BELT REVEALED BY EXPLORER XII MEASUREMENTS AND CALCULATIONS FROM SIMULATED COMDITION MASA-TN-D-1674 M63-13821 .09-12

ANNA-1 SATELLITE OPTICAL BEACON FOR GEODETIC
SATELLITE OPTICAL OBSERVATION
AFCRL-63-56
N63-15107
11-

SATELLITES IN ELLIPTICAL ORBIT	RM-3700-PR N63-21323 21-32
NASA-TN-D-1472 N63-13096 07-28	FEASIBILITY OF GRAVITATIONAL ORBIT SATELLITE
PLANISPHERE FOR SATELLITE ORBIT PLOTTING ON CELESTIAL SPHERE N63-13353 08-29	IAS PAPER 62-111 N63-21645 22-32
SATELLITE OBSERVATIONS IN THE NETHERLANDS AND COMPUTER PROGRAM TO PREDICT APPARENT PATH	ORBITAL ELEMENTS DERIVED BY SATELLITE TRACKING PROGRAM USING DIFFERENTIAL ORBIT IMPROVEMENT PROGRAM
N63-13531 08-29	MASA-CK-31302 NO3-21701 22-32
CRITICAL INCLINATION PROBLEM IN SATELLITE ORBIT	ATMOSPHERIC PERTURBATION EFFECT ON NEARLY CIRCULA SATELLITE ORBITS AFCRL-63-895 N63-22803 23-39
NASA-TR-R-148 N63-13723 08-29 SINGULAR ORBITS OF EARTH-HOOK SATELLITES NITH HIGH	AFCRL-63-895 N63-22803 23-79 GEODESY RESEARCH - GRAVITY MEASUREMENTS AND EARTH
AREA-MASS RATIO N63-15205 11-32	SHAPE DATA FROM SATELLITE ORBIT CALCULATIONS - GEODETIC SATELLITE RECOMMENDATIONS
PEGASUS COMPUTER PROGRAM FOR PREPARATION OF EPHEMERIDES OF EARTH-SATELLITE RAE-TN-SPACE-23 N63-15734 12-32	N63-23445 24-12 SATELLITE ORBITAL ELEMENT
EARTH UPPER ATMOSPHERE - TEMPERATURE AND DENSITY	SATELLITE ORBITAL DATA OF VANGUARD III SAD SPECIAL REPT103 N63-10508 01-39
VARIATIONS REVEALED BY ATMOSPHERIC DRAG ON SATELLITE ORBITS N63-15819 13-12	SATELLITE OBSERVATIONS - EXPLORER I, VANGUARD II,
ALIGNMENT OF SUN, EARTH, AND SATELLITE WITH IBM 7090 COMPUTER - ORBIT CALCULATIONS	VANGUARD II ROCKET, VANGUARD III, AND EXPLORER VII SAD SPECIAL REPT96 N63-13475 D8-R
TOR-930/2352/TR-1 N63-15920 13-29 DETERMINATION OF UPPER ATMOSPHERE DENSITY FROM	SATELLITE ORBITAL DATA FOR EXPLORER I, VII, VIII, IX AND VANGUARD II AND III - ORBITAL ELEMENTS SAO SPECIAL REPT113 N63-14254 10-29
CHANGES IN SATELLITE ORBITS AND METEOROLOGICAL INSTRUMENTS CARRIED ON SATELLITES RAE-TRANS-1027 N63-16024 13-32	CATALOG OF SATELLITE OBSERVATIONS, NO. C-33 SAO SPECIAL REPT116 N63-14411 10-32
DRAG FLUCTUATION AND SATELLITE ORBIT CALCULATION - CIRCULAR ORBIT NASA-CR-50235 N63-17698 16-20	CATALOG OF SATELLITE OBSERVATIONS C-31. EXPLORER I & VII, VANGUARD II & III - JANUARY-JUNE 1962 SAO SPECIAL REPT114 N63-14546 10-32
PROPOSED INSTRUMENTAL SATELLITES FOR COVERAGE OF GEOMAGNETIC FIELD AND PARTICLE BELTS WITHIN GIVEN SATELLITE ORBIT - WORLD MAGNETIC SURVEY	SATELLITE ORBITAL ELEMENTS NASA-CR-50798 N63-19957 19-32
NASA-CR-50474 N63-18409 17-12	SATELLITE ORBITAL ELEMENTS NASA-CR-50794 N63-19958 19-29
SATELLITE ORBIT - MOTION AND ORIENTATION IN SPACE N63-18431 17-29	SATELLITE ORIENTATION MATHEMATICAL ANALYSIS FOR ORIENTATION AND CONTROL
MOTION OF SPACE VEHICLES IN SOLAR SYSTEM - SATELLITE ORBIT FOR INTERPLANETARY FLIGHT	OF ORBITING ASTRONOMICAL OBSERVATORY NASA-TN-D-1668 M63-12063 05-21
ACCURACY REQUIREMENTS OF MOTION PARAMETERS AT END OF EJECTION PHASE - SATELLITE LAUNCH AND ORBIT NA3-18433 17-29	ENGINEERING DESIGN OF ORBITING GEOPHYSICAL OBSERVATORIES TO MEET EXPERIMENT ORIENTATION REQUIREMENTS N63-15168 11-32
MOTION OURING SATELLITE EJECTION INTO ORBIT - SPACECRAFT AND CARRIER ROCKETS USED FOR EJECTION N63-18434 17-31	ENGINEERING DESIGN OF ORBITING ASTRONOMICAL OBSERVATORY SATELLITES - OPTICAL SYSTEMS, THEMMAL CONTROL, ORIENTATION AND STABILIZATION N63-15172 11-32
DECELERATION DURING SPACECRAFT DESCENT FROM ORBIT	SATELLITE ORIENTATION - STABILITY AND CONTROL
TO EARTH AND PLANETARY SURFACE N63-18435 17-32	SATELLITE ORBIT - MOTION AND ORIENTATION IN SPACE
SPUTNIK V SATELLITE SYSTEMS ANALYSIS - LAUNCHING, ORBITING, DESCENT TRAJECTORY, FLIGHT CONTROL AND COMMUNICATIONS N63-18450 17-32	N63-18431 17-29 SATELLITE PERTURBATION
SATELLITE ORBIT CALCULATIONS - POSITIONS OF VANGUARD II AND 111 SATELLITES AND ECHO I ROCKET NASA-CR-50795 N63-19094 18-08	MOTION OF A CENTRIFUGE EQUIPPED EARTH SATELLITE ABOUT 1TS CENTER OF MASS SSD-TDR-63-210 N63-22569 23-30
THREE-BODY MOON-EARTH SATELLITE ORBIT AND TRAJECTORY CALCULATIONS FOR INJECTION AND PERISELENUM	SATELLITE PHOTOGRAPHY SATELLITE PHOTOGRAPHY AND RADIATION DATA USES IN OPERATIONAL WEATHER FORECASTING AND EARTH ENERGY BUDGET DETERMINATIONS N63-23444 24-21
MASA-TM-X-50278 M63-19963 19-29. SATELLITE ORBITAL DATA - MEAN ELEMENTS, SMOOTHED	SATELLITE ROTATION SOLAR RADIATION PRESSURE EFFECT ON EXPLORER XII
ELEMENTS, AND SUN PERIGEE DATA FOR VANGUARD, ECHO, AND EXPLORER SATELLITES	ROTATION MASA-TN-D-1855 260 09013 1 2001 N63-19735 19-9
SPHEROIDAL METHOD FOR CALCULATING SATELLITE ORBITS	GYROTHEORY - DIFFERENTIAL EQUATIONS FOR SPINNING ROTATIONAL SYMMETRIC SATELLITE ATTITUDE CONTROL ORA-63-6 N63-19743 19-32
DECREASE IN UPPER ATMOSPHERE DENSITY BETWEEN 1957 AND 1963 OBSERVED BY SATELLITE ORBITS	SATELLITE TRACKING SA OPTICAL SATELLITE TRACKING PROGRAM
RAE-TH-SPACE-32 M63-20747 21-12	NOCTURNAL OPTICAL OBSERVATIONS OF SATELLITES
EARTH SATELLITE LIFETIMES - EFFECT OF ALTITUDE, ORBIT-PLANE INCLINATION, AND PERTURBATION FORCES	FTD-TT-61-351/16264 N63-10339 01-8

SE-15 TOTEL CON

EARTH SATELLITE LIFETIMES - EFFECT OF ALTITUDE, ORBIT-PLANE INCLINATION, AND PERTURBATION FORCES

21-12

22-32

22-32

Citt as

23-29

ABTH

24-12

01-29

R VII

III.

10-29

0-12

ER I

9-32

9-29

ROL 5-21

1-32

-

5-32 ACE

-31

-21

c

-32

-01

SATELLITE LOOK ANGLE CALCULATOR FOR SATELLITE TRACKING AND CONFIGURATIONS MOS-10464 01-0 TOTAL IONOSPHERIC ELECTRON DENSITY AT MAGNETIC EQUATOR FROM DESERVATIONS OF FARADAY EFFECT ON SATELLITE TRANSMISSIONS NASA-TH-D-1756 (MS)-17119 15 M63-10464 01-08 OFFICAL SATELLITE TRACKING PROGRAM N63-10642 . 02-08 35-40 M63-17119 15-20 COMMERCIAL COMMUNICATIONS SATELLITES -CONGRESSIONAL HEARINGS N63-10865 AUTOMATIC PICTURE TRANSMISSION SYSTEM - NIMBUS SATELLITE NA3-18619 17-30 02-08 SATELLITE TRACKING WITH A CAMERA - CLOUDS, FOG, MOON, AND FILM PROCESSING AS INFLUENCING FACTORS ESD-TOR-62-336 N63-12219 05-OPTIMIZATION OF SATELLITE DATA ACQUISITION & 05-10 IONOSPHERE TOTAL ELECTRON CONTENT 6.175 VARIATIONS FROM FARADAY FADING OF COSMOS V 20-NEGACYCLE TRANSMISSIONS RANGE ERRORS OF HEIGHTS & INCLINATIONS AND COORDINATES OF POINTS ON GEODETIC DATA USING N63-12283 N63-22300 23-09 SYMMETRY PATTERN RECOGNITION SYSTEM II - SYSTEM BASED UPON INHERENT SYMMETRY OF TYPICAL SIGNAL DUE TO SATELLITE PASS NR.-5847 FARADAY EFFECT ON LINEARLY POLARIZED SATELLITE RADIO TRANSMISSIONS AS MEASURE OF IGMOSPHERIC ELECTRON GENSITY AFCRL-63-109 N63-23110 2 N63-23110 24-08 PROGRESS IN SOUNDING ROCKETS, DIAMANT SATELLITES, INSTRUMENTATION, RADAR, LAUNCHING SITES, AND SATELLITE TRACKING IN FRANCE N63-13758 08-0 UNATION
HIGH TEMPERATURE LIQUID METAL HEAT TRANSFER FORCED-CONVECTION SATURATION BOILING OF POTASSIUM
AT NEAR ATMOSPHERIC PRESSURE FOR REACTOR COOLING TRACK DETERMINATION OF ARTIFICIAL EARTH SATELLITES FROM VISUAL OBSERVATIONS N63-15454 12-32 N63-15012 11-13 MILLIMETER WAVE AMPLIFICATION BY RESONANCE SATURATION SMITHSONIAN INSTITUTE FACILITIES FOR SATELLITE FLOW CHARACTERISTICS OF SATURATED FREON-II THROUGH APERTURES AND SHORT TUBES ANL-6667 N63-15218 :11-11 CALIBRATION SYSTEM OF MINITRACK SATELLITE TRACKING STATIONS N63-16950 14-08 N63-15218 11-11 OPTICAL SATELLITE TRACKING PROGRAM - PHOTOGRAPHIC TRACKING, MODNWATCH PROGRAM, COMMUNICATIONS NASA-CR-50225 N63-18166 16-10 ISOTOPE SHIFT AND SATURATION BEHAVIOR OF 1.5 MU OPTICAL TRANSITION OF NEON MASERS 16-10 N63-15453 12-25 GEODETIC POSITIONING BY SATELLITE TRACKING WITH DENSITIES OF SATURATED LIQUID HYDROGEN R-226 N63-17136 15-23 NASA-CR-50801 19-10 ORBITAL ELEMENTS DERIVED BY SATELLITE TRACKING PROGRAM USING DIFFERENTIAL ORBIT IMPROVEMENT PROGRAM NASA-CR-51562 NICKEL ANISOTROPY CONSTANT DEPENDENCE ON TEMPERATURE AND SATURATION MAGNETIZATION JPRS-21676 N63-23608 SATURN /PLANET/ PHYSICS OF PLANETS - INTERNAL STRUCTURE, SURFACES, AND ATMOSPHERES - MERCURY, VENUS, MARS, JUPITER, AND SATURN ISOTROPIC COVERAGE ON SATELLITES OF LARGE DIAMETER COMPARED WITH WAVELENGTH NASA-CR-51321 AFCRL-63-457 14 18 50 .0 40 2014 N63-16280 0813-23 ASTRONOMICAL ALMANAC, MAY-AUG 1963 - DATA FOR SUN, MOON, VENUS, SATURN, AND JUPITER CF TEL PHETRY SPECIAL PROBLEMS OF THE SATELLITE NEWS M63-17010 15-29 TRANSMISSION TECHNIQUE N63-10040 01-08 SATURN LAUNCH VEHICLE
LAUNCH VEHICLES AND LAUNCH OPERATIONS OF ATLAS,
ATLAS-CENTAUR, TITAN, AND SATURN
M63-11147 03-31 DETERMINATION OF IGNOSPHERIC ELECTRON DEMSITY BY ANALYSIS OF FARADAY ROTATION RECORDS RECEIVED FROM A TRANSMITTING SATELLITE N63-10168 01-12 TELEPHONE TRANSMISSION SYSTEMS FOR SATELLITE LINKS N63-11353 03-08 DEVELOPMENT OF LARGE SOLID PROPELLANT BOOSTERS LIQUID PROPELLANTS FOR SATURN AND NOVA VEHICLES N63-12293 05 MEASUREMENT OF ELECTRON CONTENT BY FARADAY EFFECT ON SATELLITE BEACON TRANSMITTERS LOCATED ON MAGNETIC EQUATOR N63-11607 04-12 SATURN NAME CHANGES - SATURN VEHICLE I, IB AND V -SATURN STAGE S-I, S-IC, S-II, S-IV AND S-IVB N63-12491 06-31 IONOSPHERIC ELECTRON COLUMNAR DENSITY & VARIATIONS MEASURED BY DOPPLER SHIFTS IN SATELLITE TRANSHISSIONS N63-11762 04-12 SPACE VEHICLE LAUNCHING AND ASSOCIATED HOISE -SATURN LAUNCH VEHICLE - OPERATIONAL PROBLEMS RESULTING FROM VIBRATION N63-13857 09-30 VARIATION OF RADIO-STAR AND SATELLITE AMPLITUDE SCINTILLATIONS WITH ZENITH ANGLE - EFFECT OF IONOSPHERIC IRREGULARITIES N63-12467 06-12 FEASIBLE SOLAR PROBES FROM PRESENT PLANNED VEHICLE TECHNOLOGY - SATURN ROCKET - CENTAUR VEHICLE NASA-TH-D-1747 N63-15055 11-32 SYMMETRY PATTERN RECOGNITION SYSTEM 11 - SYSTEM BASED UPON INHERENT SYMMETRY OF TYPICAL SIGNAL DUE TO SATELLITE PASS NRI-5847 N63-13005 07-SPACE SCIENCE - LAUNCH VEHICLE - SATURN ROCKET M63-15977 13-31 NA3-13005 07-08 SPACE SCIENCE - TELEMETRY FOR GUIDED MISSILES AND SPACE VEHICLE CARRIER SYSTEMS - FROM V2 TO SATURN M63-15998 13-08

PROBLEMS OF PRELAUNCH CHECKOUT OF APOLLO SPACEGRAFT AND LAUNCH VEHICLE

N63-16972

AURORAL ZONE SATELLITE SCINTILLATION STUDIES
AFCRL-62-1054 N63-1368B 08-12

SATELLITE-TO-SATELLITE PROPAGATION - EFFECTS OF IONOSPHERE ON RADIO FREQUENCY ELECTROMAGNETIC WAVES

SPACE FLIGHT ADAPTIVE GUIDANCE THEORY - CELEST MECHANICS, CALCULUS OF VARIATIONS, COMPUTER PROGRAMS, & SATURN VEHICLE APPLICATIONS NASA-TH-X-50237 N63-20191 2	LIQUID HYDROGEN SERVICING SYSTEM FOR SATURN I LAUNCH COMPLEX - TEST OF LIQUID HYDROGEN GAS PURP, VAPORIZATION COIL, VENT SYSTEM AND SURCOOLER NASA-CR-51733 N63-22161 22-36
REFLECTIVE UNFIRED CERAMIC THERMAL INSULATION BASE OF SATURN LAUNCH VEHICLE BOOSTER STAGE HASA-TH-X-50242 N63-20215 2	FOR SUPERSONIC WIND TUNNEL DETERMINATION OF MOZZLE HINGE-HOMENT COEFFICIENTS FOR SATURN I WITH & 20-19 WITHOUT JET FLOW
HIGH ALTITUDE ALTIMETER FOR SATURN BOOSTER AIAA PAPER 63-352 N63-20759 2	NASA-TN-D-1962 N63-23786 24-02 21-31 SATURN V LAUNCH VEHICLE
OPERATIONAL FLIGHT CONTROL FOR SATURN BOOSTER	SPACE MISSION CAPABILITIES OF SATURN V AND NOVA LAUNCH VEHICLES WITH NUCLEAR ENGINES 11-31 AIAA PAPER-63-286 N63-17013 16-27
GROUND SUPPORT SYSTEM AND LAUNCHING FACILITIES SATURN SPACE VEHICLE	FOR SATURN V LAUNCH FACILITY MASA-TM-X-50245 N63-20243 20-18
PICTORIAL PROGRESS OF SATURN LAUNCH VEHICLE - TRANSPORTATION, LAUNCHING, TEST FACILITIES	LAUNCH COMPLEX AND CHECKOUT FACILITIES FOR SATURA Y LAUNCH VEHICLE APOLLO SPACECRAFT COMPLEX AIAA PAPER-63-88 N63-22034 22-31
NOISE PRESSURE LEVEL DISTRIBUTION BY SATURN BOOSTERS DURING LAUNCHING	SATURN V/APOLLO SPACECRAFT LAUNCH OPERATION PLAN AIAA PAPER-63087 N63-22036 22-81
NASA-TH-X-50472 N63-21910 2	22-23 SATURN V ADAPTIVE CONTROL SYSTEM NASA-CR-51704 N63-22137 22-66
TRANSDUCERS CAPABLE OF SMALL FLOW RATE MEASURE FROM LEAKS IN FLANGES OF SATURN ENGINE SYSTEMS NASA-TM-X-50421 N63-21915 2	MEM!
LAUNCH COMPLEX & SERVICE STRUCTURE FOR SATURN	A NO-22 LANGE SPOLITE OF THE PART OF THE P
LAUNCH VEHICLE NASA-TR-X-50880 N63-22896 2 SATURN S-11 STAGE	SAVANNAH NUCLEAR SHIP UPGRADING ANALOG COMPUTER ANALYSIS OF SAVANNAH NUCLEAR SHIP REACTOR POWERPLANT BAW-1260 N63-12457 06-20
CURING INSULATION ADHESIVES FOR SATURN S-11 RO	
SATURN I /SA-1/ LAUNCH VEHIGLE LATERAL VIBRATION CHARACTERISTICS OF SCALE MOD SATURN SA-1 LAUNCH VEHICLE - RESONANT FREQUENC	ORNL-3417 M63-15441 12-07 EL TES SCALE EFFECT
AND DAMPING NASA-TN-D-1593 N63-12246 0	CAVITATION SCALE AND THERMODYNAMIC EFFECTS IN STATIONARY AND ROTATING COMPONENTS WITH MATER AND MERCURY N63-10530 01-11
SATURN SA-3 LAUNCH - HIGH WATER PROJECT N63-12360 0	6-31 SCALE EFFECTS AND COMPUTER CORRELATION TECHNIQUES
SATURN SA-1 AND SA-2 FLIGHT TESTS - THERMODYNAL	TP-54 N63-11235 03-13
OF BASSESS CONTRACTOR OF THE SAME OF THE S	4-20 EFFECT OF CHANGING SCALE UPON DRAG COEFFICIENT,
AERODYNAMIC DAMPING OF 0.02 SCALE SATURN SA-1 MODEL VIBRATING IN FIRST FREE-FREE BENDING MODI NASA-TN-0-1956 N63-21057 2	FILLING TIME, PEAK OPENING FORCE FOR PARACHUTE E ASD-TDR-62-1023 N63-13009 07-03
ERROR ANALYSIS OF PROPULSION SYSTEM FOR SATURN SA-1 BOOSTER	SCALE MEIGHT I - MICROSCALE VARIATIONS IN RADIO REFRACTIVE INDEX OF ATMOSPHERE - REFRACTOMETER MEASUREMENT OF
NASA-TH-X-50206 N63-21625 2:	2-27 TURBULENT STRUCTURE WITHIN HEIGHT PROFILE AFCRL-63-71 N63-16242 13-21
SATURN 1 /SA-2/ LAUNCH VEHICLE SATURN SA-1 AND SA-2 FLIGHT TESTS - THERMODYNAM AND MINDS	MICS SCALE MODEL SINILARITY REQUIREMENT IN AEROTHERMOELASTIC TESTS
MASA-18-A-30000 M63-16723 1	4-20 ON SCALE MODELS . N63-11065 03-33
SATURN I /SA-4/ LAUNCH VEHICLE FOURTH SATURN I /SA-4/ LAUNCHING TO TEST ENGINE-OUT CAPABILITY OF SATURN BOOSTER	MASA-14-7-10 HE3-12346 OB-01
SATURN I LAUNCH VEHICLE LAUNCH DEFLECTOR DESIGN CRITERIA AND SATURN C-1	0-32 PRESSURE STUDY OF SCALE MODEL XSM-64A NAVAHO MISSILE AND BOOSTER AT SUPERSONIC SPEEDS 1 NASA-TH-X-17 N63-12549 06-02
DEFLECTOR FOR EXHAUST JET ENERGY DISTRIBUTION NASA-TH-D-1275 BASE HEAT TRANSFER, PRESSURE RATIOS, AND	9-31 BASIC PRESSURE MEASUREMENTS ON 0-0667-SCALE MODEL OF NORTH AMERICAN X-15 RESEARCH AIRCRAFY AT TRANSONIC SPEEDS
CONFIGURATION EFFECTS ON SATURN C-1 MODEL AT MACH 0-1 TO 2-0 NASA-TN-D-1566 N63-16159 13	NASA-TH-X-344 N63-12560 06-04 3-30 AERODYNAMIC CHARACTERISTICS OF A 0.0667-SCALE
ERROR SOURCE DETERMINATION IN INERTIAL GUIDANCE SYSTEM MEASUREMENTS FROM SATURN I BOOSTER	MODEL OF THE X-15 AIRCRAFT
NASA-TH-X-50184 N63-19944 19	9-22 NONLINEAR MODELING OF SCALE MODEL PHYSICAL SYSTEMS USING PARTIAL DIFFERENTIAL EQUATIONS - SIMILITUDE
NUCLEAR-ELECTRIC PROPULSION SYSTEM USING SATURN 1-B BOOSTER CHAIN FOR UNMANNED SPACE EXPLORATION OF SOLAR SYSTEM	ON AFCRL-62-573 M63-15040 11-20
MASA-CR-51015 M63-21348 21	L-32 STATIC STABILITY TEST ON .098 SCALE STANDARD LAUNCH VEHICLE SLV-IB WITH 4-SQUARE-FOOT FIN AREA

rum, 12-24

4-02 4-27 6-10 UNH 2-31

AN 2-01

1-04 TY 1-30

-20

MAII -07

-11 ES

43

21

5

12

12

•

AFSMC-TDR-63-21 M63-16897 14-04	BH-RI-5984 N63-18297 17-23
AEROELASTICITY - SCALE MODEL CONSTRUCTION FOR FLUTTER TESTS N63-17822 16-33	ALLOYS AND DIFFUSION COUPLES OF YTTRIUM & SCANDIUM WITH GROUP V AND VI REFRACTORY ELEMENTS - SOLID SOLUTIONS
AEROELASTICITY - SCALE MODEL TESTING FACILITIES - ROCKET SLED. GROUND LAUNCHED ROCKET. AND FREE FALING BOMB M63-17824 16-10	SOLUTIONS ASD-TDR-63-204 N63-18627 17-18 SCAMMING
WIND TUNNEL INVESTIGATION OF STATIC AERODYNAMIC CHARACTERISTICS OF MERCURY CAPSULE MODEL AT TRANSONIC SPEEDS	SA PANDRARIC SCAMMING SA SELF-SCAMMING INFRARED DIFFRACTION PATTERN SCAMMING SSD-TDR-62-157 N63-10313 01-08
NASA-TH-X-292 N63-17988 16-02	CONTINUOUS SCAN SCINTILLATION SYSTEM FOR
PRESSURE DISTRIBUTION ON MODELS OF PROJECT MERCURY CAPSULE AT MACH 1.60 TO 6.01 MASA-TH-X-336 M63-1794 16-30	INSPECTION OF TUNGSTEN BILLETS FOR MOZZLES IN SOLID PROPELLANT ROCKET ENGINES USNRDL-TR-602. N63-12474 06-17
SCALE MODEL OF SOLAR-FLARE-INDUCED IONIZATION IN D-REGION N63-19693 19-12	OPTICAL SCANNING USING ELECTRICALLY-MODULATED MEMBRANE MIRRORS - APPARATUS AND EXPERIMENTAL
ANTENNA-MODELING TECHNIQUES FOR INTERFERENCE MEASUREMENTS - SCALE MODEL TESTING NETHOD RADC-TDR-62-281 N63-20015 19-08	THEORY OF SEQUENTIAL PATTERN RECOGNITION - SCANNING QUANTITIZED, FINITE PATTERN FIELD -
STATIC & DYNAMIC STABILITY OF MERCURY REENTRY	BINARY CODING EOC-1-62-14 N63-13262 07-20
CAPSULE SCALE MODELS AT MACH 3 £ 9.5 NASA-TH-X-373 N63-20535 20-32	INFINITELY VARIABLE FERRITE PHASE SHIFTERS USED IN HIGH SPEED CONTINUOUS BEAM SCANNING AND IN
AERODYMAMIC DAMPING OF 0.02 SCALE SATURN SA-1 MODEL VIBRATING IN FIRST FREE-FREE BENDING MODE NASA-TN-0-1956 N63-21057 21-02	MICROWAVE POWER RECEPTION FROM SEVERAL ANTENNAS N63-14106 09-08
SURFACE PRESSURE DISTRIBUTION ON 0.0628 SCALE	PHOTOELECTRONIC SCANNING OF CODED ENVELOPES BY CADMIUM SULFIDE PHOTORESISTANCE CELLS FOR SORTING PURPOSES N63-15215 11-18
NASA-TN-D-1961 N63-21892 22-31	ELECTRONIC SCANNING AS APPLIED TO PHASE ARRAY RADAR - ANTENNA SYSTEM
BINARY SCALING FOR NONEQUILIBRIUM AIR FLOWS ABOUT BLUNT BODIES	MAL-1M-63-3
CAL-OH-1626-A-8 N63-11419 03-02 CASPER PROGRAM FOR PLOTTING AND SCALING DATA	COMPARISON BETWEEN SPECTRAL SCANNING THEORY AND CLASSICAL COLOR VISION THEORIES MASA-CR-50350 N63-17230 15-23
ORAL-3394 OS-20 GNONE PROJECT - MEASUREMENT OF INTERMEDIATE RANGE EARTH MOTIONS DUE TO UNDERGROUND NUCLEAR EXPLOSION IN HALITE BED	SPECTRAL THEORY OF COLOR PERCEPTION AND VISUAL ADAPTATION IN TERMS OF SPATIAL ENERGY DISTRIBUTION AND MODULATED WAVEFORMS PRODUCED BY SCANNING MASA-CR-50351 N63-17483 16-16
PNE-111F	TV SCAN LINE AND SCAN PATTERN IN SYMBOL
NUCLEAR GROWTH AND OTHER SCALING FACTORS IN CAVITATION INCEPTION N63-15759 12-11	CONSTRUCTION ESD-TOR-63-440 N63-22531 23-09
GROWTH OF NUCLEI AND RELATED SCALING FACTORS IN CAVITATION INCEPTION N63-16348 14-11	SCAMMING DEVICE INFRARED HORIZON SCAMMING BY ROCKETBORNE
PRESSURE SCALING IN RANJET COMBUSTOR WITH FUEL INJECTION N63-18584 17-26	RADIOMETER AFCRL-62-1001 N63-10069 01-12
SCALING IN UNSTABLE COMBUSTION PROCESSES OF SOLID PROPELLANT ROCKET ENGINES N63-18592 17-23	SCAMMING MECHANISM FOR A SATELLITE-BORNE X-RAY SPECTROMETER MASA-TM-D-1097 N63-10204 01-15
SCALING AND PERFORMANCE ANALYSIS BY COMPUTER FOR NULTISTAGE LIQUID PROPELLANT ROCKET VEHICLE RTD-TDR-63-1060 N63-23722 24-02	CORRELATION METHOD FOR RECOGNIZING PATTERNS - SCANNING DEVICE CYBERNETICS JPRS-17391 N63-12925 05-09
SCALING LAWS FOR DAMPING NASA-TN-D-1467 N63-10987 02-33	AUTOMATIC LANDING SYSTEM STUDY - GROUND EQUIPMENT, SCANNING BEAM SYSTEMS, AND DATA TRANSMISSION STUDY ASD-TR-61-114, PT. 11 N63-15335 12-22
SCALING LAWS IN STABILITY OF FLAMES ON FLAMEHOLDER N63-18587 17-26	SPLIT BEAM PHOTOELECTRIC SCANNER FOR HEASURING CHANGES IN OPTICAL DENSITY FOR MATERIALS IN ULTRA-
CANDILIN PRINCES OF DOWNER BY THE YEAR OF THE REAL PRINCES	UCAL-10499 AT AUTHURN AT 2803144 M63-16149 13-15
ABUNDANCES OF THE FOURTEEN RARE EARTH ELEMENTS PLUS YTTRIUM AND SCANDIUM IN METEORITES GA-3961 N63-14103 09-29	UNIVERSAL PRINT READER - SCANNER, CHARACTER RECOGNITION, AND DATA PROCESSING RADC-TOR-63-181 N63-16401 14-20
RARE EARTH, YTTRIUM, AND SCANDIUM ABUNDANCES IN METEORITIC AND TERRESTRIAL MATTER GA-4221 N63-16779 14-12	FILM ANALYZER - SCANNING DEVICE FOR PHOTOGRAPHIC PROBLEM SOLVING, OSCILLOSCOPE TRACES, SPARK
ABUNDANCE OF RARE-EARTH ELEMENTS, SCANDIUM, AND YTTRIUM IN SOLAR SYSTEM - METEORITIC MATTER AND	CHAMBER PICTURES 39990 241990 34 MAI 3M 49 YOUT CERN-63-10 AND MADE VAR-A DAI SU Y M63-17467 7315-15
EARTH CRUST GA-3059 N63-16885 14-18	HIGH-SPEED, SOLID-STATE, DIGITAL SCANNER FOR COMMUTATING DATA TO ERA 1102 COMPUTEA AEDC-TOR-62-61 M63-17686 18-20
LOW TEMPERATURE HEAT CAPACITY AND ENTROPY OF SCANDIUM AT 298-DEG K	FIBER OPTICS TRACK/SCAN SYSTEM

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06-23

06-23

07-23

07-28

07-21

07-29

08-25

THREE-DIMENSIONAL DISPLAY SYSTEM WITH MITROGEN-QUENCHED MERCURY VAPOR & ACOUSTIC WAVE SCANNING RADC-TDR-63-202 N63-20828 21-06 HIGH SPEED SCANNING DEVICE FOR TRANSVERSE RADIATION MEASUREMENTS OF LUMINOUS HYPERSONIC MAKES AVCO-EVERETT RES. REPT.-155 N63-22200 23-11 SCANNING SPECTROMETER SCANNING SPECTROMETER WITH RANGE FROM 500 TO 1500 ANGSTROMS FOR ORBITING SOLAR OBSERVATORY N63-18354 17-15 SA BACKWARD SCATTER SA ELASTIC SCATTERING ELECTRON SCATTERIN INCOMERENT SCATTERING IONOSPHERIC F-SCATTER SA NEUTRON SCATTERING NUCLEON-NUCLEON SCATTERING RAYLEIGH SCATTERING TROPOSCATTER CA DIFFRACTION DIFFUSION SCATTERED LIGHT PHOTOELASTICITY N63-10101 01-25 ELONGATION OF IRREGULARITIES IN THE EQUATORIAL IONOSPHERE - FADING OF RADIO WAVES BY SCATTERING N63-10134 AFCRL-62-902 01-12 THE STRATOSPHERIC SOLAR CORONA M63-10196 01-05 QUASI-ELASTIC SCATTERING BY ROOM TEMPERATURE LIGHT WATER HW-75147 N63-10360 01-23 VENUSIAN AND LUNAR RADAR DEPOLARIZATION JP1-TR-32-245 N63-10428 01-05 KERNEL AND PAM PROGRAMS IN CALCULATION OF THE THERMAL SCATTERING MATRIX FOR CHEMICALLY BOUND **KAPL-2225** N63-10501 01-23 THE INFLUENCE OF TURBULENT SCATTERING ON THE PROPAGATION OF A POLYDISPERSED ADMIXTURE N63-10539 JPRS-16492 01-12 COLLISION FREQUENCY EFFECTS ON SCATTERING CROSS SECTIONS OF CYLINDRICAL PLASMA CONFIGURATIONS WITH RADIALLY VARYING ELECTRON DENSITY N63-10732 02-24 PHYSICAL PROPERTIES OF THE MOON AND PLANETS N63-11407 03-29 AR-26-JPL SYMMETRIZED MANY-CHANNEL ND-1 METHOD AND POLE PPROXIMATION AFDSR-TN-2566 N63-11635 04-23 HIGH-ENERGY SCATTERING - PART 1, POTENTIAL SCATTERING & FIELD THEORY - PART 2, EQUATION FOR REGGE TRAJECTORIES N63-12050 05-05-23 SLOWING APPROXIMATIONS IN NEUTRON TRANSPORT THEORY N63-12054 05-23 SOVIET CONFERENCE ON ELEMENTARY PARTICLE THEORY . SCATTERING, INTERACTIONS, GRAVITATION, AND QUANTUM FIELD THEORY JPRS-1737A NA3-12224 05-23 STUDY OF METALLIC CRYSTAL DEFECTS BY DETERMINING ELECTRON DENSITY USING X-RAY BEAM SCATTER METHOD

MULTIPLE-BEAM SCANNING CIRCULAR ANTENNA ARRAY AFCRL-63-136 N63-19814

N63-19667

19-08

NUCLEAR PHYSICS, REACTOR PHYSICS AND MASS PHYSICS POLARIZATION OF MU-MESONS, WITH MOLLER SCATTERING IN MAGNETIZED IRON PLATES OF SPARK CHAMBER N63-12566 THREE-PARTICLE SCATTERING IN PLANE USING INTEGRAL EQUATION METHOD N63-12610 SCATTERING LAW FOR ROOM TEMPERATURE LIGHT WATER HW-75526 N63-12726 INHOMOGENEOUS DEFLECTING MAGNETS FOR USE IN MAGNETIC ANALYSIS OF ATOMIC AND MOLECULAR BEAMS UCRL-10526 N63-12942 07 NATURAL BOUNDARY OF ELASTIC TWO-PARTICLE SCATTERING AMPLITUDE NCRL-10615 N63-12943 FLUORESCENT SCATTERING IN PLANETARY ATMOSPHERES - APRT II, COUPLING AMONG TRANSITIONS N63-13167 RESONANCE METHOD FOR SOLVING SCATTERING PROBLEMS OF ONE-DIMENSION N63-13177 FLUDRESCENT SCATTERING IN PLANETARY ATMOSPHERES ULTRAVIOLET SPECTRUM N63-13179 OT NEW SERIES FOR PHASE SHIFT IN POTENTIAL SCATTERING PHONON SCATTERING AT LOCALIZED MODES AND THERMO-COMDUCTIVITY OF INSULATING CRYSTALS - ALKALI HALIDES WITH IMPURITY CENTERS N63-13467 HEASUREMENTS ON AGARD CALIBRATION HODEL - WIND TUNNELS, SCATTERING, TRANSONIC SPEEDS AND TRANSITION AGARDOGRAPH-64 N63-13508 TESTS ON AGARD MODEL D - DAMPING, UNSWEPT WING, FORCED OSCILLATION, SCATTERING, WIND TUNNEL N63-13513 OB

DYNAMIC NONLINEAR WAVE PROPAGATION IN IGNIZED MEDIA - PART 4, SCATTERING OF ELECTROMAGNETIC WAVES BY AN ANISOTROPIC MEDIUM

RADIATIVE TRANSFER THEORY AND PREDICTIONS OF RADIANT ENERGY SCATTERING AND DIFFUSION - X AND Y FUNCTIONS OF CHANDRASEKHAR

PHYSICS REPORT - BUBBLE CHAMBER, PARTICLE THEORY, PION, HEAVY ION, S-MATRIX, ATOMIC BEAMS, SCATTER, X-RAY STUDY, INTERACTIONS N63-14080

EXAMINATION OF PARAMETERS BETWEEN REDSTONE ARSENAL AND WHITE SANDS RANGE FOR OPERATING FREQUENCY IN L-BAND

WAVE SCATTERING IN HOMOGENEOUS AND INHOMOGENEOUS PLASMA CYLINDERS WITH CALCULATIONS USING A SCALAR PRESSURE TERM TO EXPRESS ELECTRON THERMAL MOTION TR62-209L N63-14196 09-24

SEDIMENT DENSITY METER USING SCATTERED GAMMA RAYS 211 09-15 N63-14211 TID-18124

HULTIPLE SCATTERING OF PLANE WAVES BY TWO ELLIPTIC CYLINDERS 10-20

SCATTERING OF RADIATION OF ASYMMETRIC SOURCE BY CIRCULAR CYLINDER MRC-365 N63-14584 10-20

SCATTERING PHASE SHIFTS - DISTORTION AND ELASTIC COLLISION N63-14751 11-11-23 COLLISION

RADIANT HEAT TRANSFER IN ABSORBING, ENITYING AND

05-18

N63-12229

N63-12310

TANDEM ACCELERATOR PROGRAM - HELTUM AND HELTUM-3

BEAM ACCELERATION AND SCATTERING

16 -23 23

23

15

23

28

23

29 NG 23

15

12

2

3

0

.

COLLOIDAL PARTICLE SIZE DISTRIBUTION CURVES 1

SCATTERING MEDIA AL-63-3 INFRARED AEROSOL SCATTERING - ANGULAR SCATTERING	GROUND STATE CALCULATIONS EXTENDED TO X-RAY SCATTERING FACTOR AND TRIPLET STATE OF HELIUM BY SCHWARTZ METHOD AMRA-TR-63-01 N63-21783 22-23
DIAGRAMS FOR REFRACTIVE INDEX 1.5 RAD-TR-63-9 N63-15439 12-25	BIBLIOGRAPHY OF SMALL ANGLE X-RAY SCATTERING LMSC-6-90-62-35 N63-21806 22-23
NOMPERTURBATIVE SOLUTION OF SMALL ANGLE SCATTERING MOBLEMS - MOLIERE FORMULA LNF-63/19 N63-15573 12-23	TABLES OF CLASSICAL SCATTERING INTEGRALS FOR BOHR, BORN-MAYER, AND THOMAS-FERMI POTENTIALS ORN3493 N63-22227 23-23
SOLID PROPELLANT COMBUSTION - SCATTERING OF SOUND BY GASEOUS FLAMES - COMBUSTION INSTABILITY N63-15585 12-26	SURFACE EMERGY STATES OF SINGLE CRYSTAL METALS BY ION BEAM SCATTERING & CONTACT POTENTIAL ARL-63-139 N63-22242 23-25
MONCOHERENT SCATTERING IN INHOMOGENEOUS, SENI-INFINITE ATMOSPHERE	KINEMATICS OF ELEMENTARY PARTICLES AS FUNCTION OF
ALUMINUM OXIDE IN ATMOSPHERE - SCATTERING AND PHOTOGRAPHIC TRACKING	MOMENTUM - DYMAMIC QUANTITIES FROM ELEMENTARY PARTICLE-PROTON INTERACTION UCRL-2426, VOL. III M63-22354 23-23
AFCR-63-466 N63-16417 14-12 GIANT RESONANCE DIPOLE TRANSITIONS IN NUCLEI -	COMMUNICATION PROPAGATION BY ARTIFICIAL SCATTERING DIPOLES AT SUB-IDNOSPHERIC ALTITUDES
ELASTIC SCATTERING OF GAMMA RAYS, DIPOLE EXCITATIONS, DAMPING OF GIANT DIPOLE RESONANCE N63-16451 14-25	N63-22442 23-08 BEAM DEFLECTION TECHNIQUE OF STUDYING REFRACTIVE INDEX OF PLASMA - OPTICAL PROBING OF PLASMA
CIRCUITS AND METHORKS - IMPEDANCE, TRANSMISSION, AND SCATTERING	PRODUCED IN SHOCK TUBE AROD-2836-1 N63-22570 23-24
AFCRL-63-85 N63-16463 14-09 REGGE POLES - PARTICLE SCATTERING	AUTOMATED SCATTERING CHAMBER FOR CHARGED PARTICLE SCATTERING EXPERIMENTS
UCRL-10677 N63-16502 14-23	UCRL-7427 N63-22603 23-23
CORRELATION FUNCTION FOR COHERENTLY REFLECTED AND SCATTERED PORTIONS OF RADIO SIGNAL REFLECTED FROM IONOSPHERE	CROSS SECTIONS FOR INELASTIC SCATTERING OF GANNA RAYS ON K AND L ELECTRONS OF GOLD AND URANIUM ISS-63/T RIST
FTD-TT-62-1029/16264 N63-16848 14-12	PROTON AND ELECTRON SCATTERING BY DIATOMIC DXYGEN
PI-MESON SCATTERING IN BUBBLE CHAMBER UCRL-10563 N63-17240 15-23	MOLECULES AFCRL-63-697 43-22-22-22-22-22-22-22-22-22-22-22-22-22
RADIATIVE HEAT TRANSFER IN PLANETARY ATMOSPHERE WITH INPERFECT SCATTERING R-143-PR	PROTON-COMPTON SCATTERING N63-22994 23-23 APPROXIMATE SOLUTION FOR RADIATIVE HEAT TRANSFER -
	ANISOTROPIC SCATTER N63-23337 24-12
SOLUTION OF INTEGRAL EQUATION FOR LUNAR SCATTERING FUNCTION - MEASURING LUNAR SCATTERING PROPERTIES WITH CONTINUOUS WAVE RADAR N63-18051 16-20	RESONANT SYATES IN SCATTERING OF K MESONS 6 HYPERONS 103-23461 24-23
COULDMB SCATTERING IN NUCLEAR RESEARCH EMULSION NYO-10271 N63-18070 16-23	RADIANT HEAT TRANSFER IN ABSORBING, EMITTING AND SCATTERING MEDIA
COMPARISON OF RADAR BACK SCATTERING MEASUREMENTS FROM MOON-LIKE SURFACES TO LUNAR SCATTERING DATA SURFACE ROUGHNESS - DIELECTRIC CONSTANT ESTIMATES NASA-CR-50304 N63-18395 17-08	LASER DEVICES - MATERIALS, MODE, HIGH POMER, RAMAN AND OTHER MONLINEAR OPTICAL EFFECTS N63-23544 24-25
EFFECTS OF FINAL-STATE INTERACTIONS ON SCATTERING PROCESSES FOR PARTICLES NOT SUSCEPTIBLE TO DIRECT	MEASUREMENT OF RAMAN SCATTERING CROSS-SECTIONS FOR CALCULATING STIMULATED RAMAN SCATTERING EFFECTS - RUBY LASER 26-25
SCATTERING EXPERIMENTS - NUCLEAR PARTICLES UCRL-10762 N63-18992 18-24	PION-PION RESONANCES FROM PION-NUCLEON INCLASTIC
OHE-PHONON RESONANCES IN INELASTIC SCATTERING OF NEUTRONS BY ANHARMONIC CRYSTALS N63-20628 20-25	UCRL-10731 N63-23706 24-23
SCATTERED RADIATION IN MIDDLE ULTRAVIOLET SPECTRUM REGION M63-20863 21-28	SCATTERING COEFFICIENTS FOR BACKSCATTERING OF ELECTROMAGNETIC MAYES FROM PERFECTLY CONDUCTING SPHERES
00-10 190 /5-2 lbl 00-00-00-00-00-00-00-00-00-00-00-00-00-	CAL-AP/RIS-1 - NY COMPANY COME DESIGN N63-19510 A C19-09
ELASTIC POSITIVE K-MESON PROTON SCATTERING POLARIZATION OF RECOIL PROTONS UCRL-10813 N63-20897 21-23	INTRINSIC ATTENUATION OF MICROWAVE NETWORK IN TERMS OF SCATTERING COEFFICIENT N63-21854 22-23
MULTIGROUP NEUTRON-DIFFUSION EQUATIONS IN TWO	CONTOURISM MODERNERS OF REPORT FOR A CONTOURISM OF THE COLD
DIMENSIONS & GROUP SCATTERING FOR IBM-7090 FORTRAN II SYSTEM SOLUTION GA-4246 N63-20942 21-20	SCATTERING CROSS SECTION COLLISION FREQUENCY EFFECTS ON SCATTERING CROSS SECTIONS OF CYLINDRICAL PLASMA CONFIGURATIONS WITH RADIALLY VARYING ELECTRON DENSITY:
PHASE SHIFT ANALYSIS OF PROTON-PROTON SCATTERING OF DIFFERENTIAL CROSS SECTION & SPIN-ORBIT FORCE RIFP-29 R63-20972 21-23	N63-10732 02-24 VISUAL AND AUDITORY MONITORING TESTS
SCATTERING RESONANCE ON FAST-WAVE STRUCTURE PIBMR1-1156-63 N63-21052 21-23	AMRL-TDR-62-97 N63-10945 02-14 MEUTRON CROSS SECTIONS AND RELATED NEUTRON
CAS DYNAMICS - SCATTERING OF CAS MOLECULES ON	CONSTANTS - ABSTRACTS - RUSSIAN TRANSLATIONS BNL-768/N-7/ PETAGGGG AGAIN GROWN MESS-12338 PT 05-23
VARIOUS SURFACES N63-21579 22-23	COLLOIDAL PARTICLE SIZE DISTRIBUTION CURVES

SCI

SA

	Lord to Party Co., Martine partiest, and Base Science
DETERMINED BY SPECTRA OF LIGHT SCATTERING RATIO N63-15348 12-07	MIXING OF FREE AXISYMMETRICAL JETS OF MACH 1.40 BY SCHLIEREN PHOTOGRAPHY ARC-REM-3291 N63-13803 09-11
ELECTROMAGNETIC WAVE SCATTERING - PLASMA DENSITY PROFILE - SCATTERING AND ABSORPTION CROSS SECTIONS AFESD-TDR-62-249 N63-16875 14-24	TRANSITION IN HYPERSONIC WAKE SHOWN BY SODIUM
RADAR DIFFRACTION AND SCATTERING CROSS SECTIONS OF	OBTICAL INSTRUMENT FOR INTERFEROMETRY, DESIGNATION
COMES AFCRL-63-29 M63-18269 17-08	OPTICAL INSTRUMENT FOR INTERFEROMETRY, DEFLECTION MAPPING, SHADOWGRAPHY AND SCHLIEREN PHOTOGRAPHY ARL-63-45 N63-1863B 17-15
COHERENT AND INCOHERENT SCATTERING CROSS SECTIONS OF GAMMA RAYS ON K AND L ELECTRONS OF GOLD AND URANIUM	SCHLIEREN SYSTEM FOR FLOW VISUALIZATION IN HYPERSONIC WIND TUNNEL N63-22334 23-Q
ISS-63/8 RIST. N63-22780 23-23	SCHROEDINGER EQUATION
MEASUREMENT OF RAMAN SCATTERING CROSS SECTIONS FOR CALCULATING STIMULATED RAMAN SCATTERING EFFECTS - RUBY LASER N63-23546 24-25	SCHROEDINGER SEPARABILITY APPLIED TO SATELLITE ORBIT THEORY APGC-TDR-62-67 N63-10404 01-8
SCATTERING FUNCTION	PRINCIPLES OF CLASSICAL DYNAMICS - MOTION EQUATION
SA MIE SCATTERING FUNCTION SCATTERING FUNCTION AND STRUCTURE FACTOR FOR	NYO-10250 N63-14060 09-21
HARMONIC OSCILLATOR N63-14952 11-23 INTEGRAL EQUATION FOR NONCOHERENT SCATTERING FUNCTION OF BLENDED LINES UTILIZING AMBARZUMIAN	USE OF TRUNCATED REACTION OPERATOR TO OBTAIN APPROXIMATE SOLUTIONS TO SCHROEDINGER EQUATION WIS-TCI-10, SER. 3 N63-14065 09-67
TECHNIQUE N63-16196 13-05	TIME-INDEPENDENT PERTURBATION THEORY BY GAUGE TRANSFORMATIONS N63-14358 10-81
SOLUTION OF INTEGRAL EQUATION FOR LUNAR SCATTERING FUNCTION - MEASURING LUNAR SCATTERING PROPERTIES WITH CONTINUOUS WAVE RADAR N63-18051 16-20	SCHWARTZ METHOD GROUND STATE CALCULATIONS EXTENDED TO X-RAY SCATTERING FACTOR AND TRIPLET STATE OF HELIUM BY
QUANTUM MECHANICS - SCATTERING THEORY N63-23283 24-23	SCHIRARTZ METHOD AMRA-TR-63-01 N63-21783 22-21
QUANTUM MECHANICS - SCATTERING THEORY APPLIED TO POTENTIAL SCATTERING N63-23285 24-23	SCIENCE /GEN/ SA MATERIALS SCIENCE SA PHYSICAL SCIENCE /GEN/
SCAVENGING EFFECT OF RARE-EARTH SCAVENGERS ON PROPERTIES OF TUNGSTEN AND MOLYBDENUM	SA SPACE SCIENCE LENIN PRIZES COMPETITION, 1963 - SCIENCE AND TECHNOLOGY JPRS-17261 N63-12019 05-01
ORI-2068 N63-10289 01-18	A STATE OF THE SAME OF THE SAM
EFFECTS OF MINOR ADDITIONS OF YTTRIUM TO MOLYBDENUM N63-11887 04-18	INTERNATIONAL MEETINGS ON SCIENCE, TECHNOLOGY, AGRICULTURE, AND MEDICINE - 1963 TO 1966 N63-12343 05-41
PSEUDO-SOLUTION TO SCHEDULING PROBLEM N63-12037 05-20	GUIDE TO SCIENTIFIC AND TECHNICAL LITERATURE OF EASTERN EUROPE
QUALITATIVE AND QUANTITATIVE PERSONNEL REQUIREMENT INFORMATION /QQPRI/ - USES, CONSTRAINTS, DATA, AND	NSF-62-49 N63-13064 07-01 FUNDAMENTAL NUCLEAR ENERGY RESEARCH - RADIATION
DECISION REPORTS MAL-TDR-62-4 N63-13146 07-01	MEDICINE, PHYSICAL SCIENCES, ENVIRONMENTAL SCIENCE, NUCLEAR REACTOR, RADIOACTIVE WASTE 12-01 NO-3-15708 12-01
GRAPHICAL CHART FOR THE CRITICAL-PATH METHOD N63-13276 07-01	NEED FOR LEARNING IN SPACE AGE - SCIENCE AND TECHNOLOGY 15-81
SCHIFF CALCULATION SCHIFFS EQUATION FOR CHARGES AND CURRENTS IN ROTATING MATTER N63-20796 21-23	ANNUAL REPORT, INDIAN INSTITUTE OF SCIENCE, 1961 TO 1962 - CHEMISTRY, PHYSICS, METALLURGY, PHARMACOLOGY, MATHEMATICS & ENGINEERING
CHLIEREN PHOTOGRAPHY OPERATION AND MAINTENANCE OF A SCHLIEREN SYSTEM	N63-18302 17-0
FOR USE WITH HYPERSONIC WIND TUNNEL ARL-62-463 04-15	IMAGINATIVE SENSE IN SCIENCE N63-18915 18-0
SCHLIEREN PHOTOGRAPHY STUDY OF COMBUSTION OF HYDROGEN-OXYGEN MIXTURE AND VELOCITY VARIATION OF	IMPORTANCE OF SPACE PROGRAM - ECONOMIC RETURNS IN EXPLORATION, SCIENCE, & TECHNOLOGY NASA-TW-X-50290 NO3-21051 21-39
PROPAGATED SHOCK MAVES WITH TIME AS A FUNCTION N63-12264 05-26	IMPETUS OF SPACE PROGRAM ON SENSORY AND ENVIRONMENTAL PHYSIOLOGY No3-23453 24-16
PATTERN VARIATIONS IN SUPERSONIC JET FLOW THROUGH CONTOURED NOZZLES UNDER OVEREXPANSION COMOITIONS STUDIED BY SCHLIEREN PHOTOS AND STATIC PRESSURES NO3-12269 05-11	SCIENTIFIC SATELLITE WOLLD BEET SUPPLIES SOME TO AN AUTOMATOR
HELLY SWEETSHILD FRUCH WHOLEY O NO SHELL SEED WHO \$ 1352	NASA-TN-D-1900 N63-18664 17-11
APPROXIMATION METHOD FOR MEASURING TEMPERATURE AND PRESSURE GRADIENTS AND DENSITY DISTRIBUTION IN UNSYMMETRICAL OBJECTS USING SCHLIEREN PHOTOGRAPHS	ENVIRONMENTAL TESTING FOR SCIENTIFIC SATELLITE
N63-12270 05-11 SCHLIEREN SENSITIVITY AND QUANTITATIVE MEASUREMENT	NASA-TM-X-50266 N63-20208 20-32 RESULTS OF SCIENTIFIC SATELLITES LAUNCHED BY NASA
ASD-TDR-62-924 4 0174.18 004 M63-13113 07-15	PROGRAM N63-21128 21-32
FLOW VISUALIZATION - FLUID AMPLIFICATION, BISTABLE ELEMENT, SCHLIEREN PHOTOGRAPHY N63-13390 08-11	SCIENTIFIC SATELLITES - ADVANCES IN ASTRONAUTICAL SCIENCES N63-23412 24-01

40 09-11

•

14-82 TION

17-15

23-02

E

01-29

ATTON

09-21

0-26

87

2-23

5-01

5-61

7-01

-61

1

-01

IN

-29

-16

-12

-32

ENGINEERING PROBLEMS IN SCIENTIFIC SATELLITES
ELECTRONIC APPARATUS FOR ATTITUDE CONTROL & POWER
SUPPLY N63-23413 24-3 MISSION AND DESIGN CONSIDERATIONS OF THE AERONOMY
SATELLITE S-6
N63-23414 24-32 INTERDISCIPLINARY COMMUNICATION AMONG SCIENTISTS NASA PROGRAMS N63-12835 06-16 SOCIAL AND MORAL RESPONSIBILITY OF SCIENTISTS AND N63-13542 08-01 ENGINEERS SCINTILLATION
SA PHOSHICH SCINTILLATION
CESIUM IODIDE ACTIVATED WITH THALLIUM—
SCINTILLATION IN CRYSTALS TAIL ABVIEC GEORGE N63-10542 01-23 SCINTILLATION DETECTION SYSTEM FOR THE INSPECTION
OF LARGE SOLIO-PROPELLANT ROCKET ENGINES
USHRDL-TR-589
N63-10883
02-27 SCINTILLATION METHOD IN RADIOMETRY N63-11663 04-15 MEASUREMENT OF ADSORPTION ONTO EXPLOSIVE SURFACES
USING CARBON-14
PA-18-3008 N63-12426 06-07 VARIATION OF RADIO-STAR AND SATELLITE AMPLITUDE SCINTILLATIONS WITH ZENITH ANGLE - EFFECT OF IONOSPHERIC IRREGULARITIES M63-12467 06-12 CONTINUOUS SCAN SCINTILLATION SYSTEM FOR INSPECTION OF TUNGSTEN BILLETS FOR NOZZLES IN SOLID PROPELLANT ROCKET ENGINES USARDL-TR-602 N63-12474 N63-12474 06-17 SCINTILLATION COUNTER WITH GAS MULTIPLICATION NO-ADD N63-12937 METEORITE ANALYSIS FOR GAMMA RAY EMITTING ISOTOPES BY SCINTILLATION COUNTER LA-2765 AURORAL ZONE SATELLITE SCINTILLATION STUDIES
AFCRI-62-1054 N63-13688 08-12 SCINTILLATION OF ARGON AND HELIUM 09-23 SIMPLE CIRCUIT FOR PHOSWICH SCINTILLATION COUNTER N63-15287 12-15 SCINTILLATION TRACE TRACKING BY COMPUTER IONIZATION CHAMBER N63-15474 RADIATION DETECTOR USING GEIGER AND SCINTILLATION COUNTER AND CESIUM-ANTIMONY PHOTODETECTOR N63-15489 12-15 SCINTILLATION SPECTROMETER MEASUREMENT OF SPECTRA AND SPATIAL ENERGY DISTRIBUTION OF PULSED X-RAYS GENERATED BY HIGH POWERED ELECTRONIC EQUIPMENT RADC-TOR-63-29 N63-18189 16-15 PROTONS IN OUTER RADIATION BELT BY SCOUT ROCKET SCINTILLATION SPECTROMETER AFSWC-TDR-62-105 N63-18796 18-28 SCINTILLATION COUNTER TELESCOPE FOR CHARGE AND ENERGY SPECTRA STUDY OF PRIMARY COSMIC RADIATION MASA-TN-0-1757 M63-19074 18-15 RADIO STAR SCINTILLATIONS AND SPREAD-F ECHOES OVER SOLAR CYCLE - OBSERVATIONS OF CASSIOPEIA A M63-19098 18-03

RADIO ASTRONOMICAL STUDIES - SOLAR FLUX, IONOSPHERE ELECTRON DENSITY, TROPOSPHERE SCINTILLATION AFCRL-63-464 N63-191

GROWING SODIUM IODIDE-THALLIUM ACTIVATED SCINTILLATION SINGLE CRYSTALS
AEET-TP-3
N63-2314

COSMIC RADIATION, SOLAR PLASMA, VAN ALLEN BELT, & SCINTILLATION COUNTER RESEARCH IN ITALY LNF-63/54 N63-23194 24-23 TELESCOPIC OBSERVATIONS OF STELLAR SCINTILLATION -ZENITH DISTANCE & APERTURE EFFECTS FTO-TT-62-1430/162 N63-23727 24-29 SCINTILLATOR
YIELD OF RADIOLUMINESCENCE OF ORGANIC COMPOUNDS,
SCINTILLATORS, GAMMA RAYS
N63-10679 02-N63-10679 02-28 NEUTRON AND GAMMA RAY DISCRIMINATION IN ORGANIC SCINTILLATORS AND PHOTOMULTIPLIERS USING THE SPACE CHARGE EFFECT N63-14110 09-15 RADIOLOGICAL PHYSICS RESEARCH - RADIOISOTOPE METABOLISM, QUANTUM YIELD OF LIQUID SCINTILLATORS, SHIELDING, FILM DOSIMETERS, RADON METEOROLOGY ANI-6646 M63-17305 15-01 RADIOPHYSICS - MEASUREMENT OF PHOTOLUMINESCENT QUANTUM YIELD OF LIQUID SCINTILLATORS N63-17307 15-23 VARIANCE IN SCINTILLATOR LIGHT COLLECTION 1411 NO34 05000 14 DK N63-20893 1821-23 ANL-6737 SCISSION EFFECT OF ADDITIVES AND CURE ON COMPRESSION SET, CROSSLINKING, AND CHAIN SCISSION IN IRRADIATED RUBBER VULCANIZATE USNRDL-TR-547 N63-12100 05-19 N63-12100 05-19 BOND DISSOCIATION ENERGY, IONIZATION POTENTIAL AND ELECTRON AFFINITY VALUES FOR CHERICALLY REACTIVE MOLECULES AT MIGH TEMPERATURES NASA-TH-D-1791 N63-16164 13-07 HEATING AND FREEZING EFFECTS ON HONEYCOMB PANELS -CORE-TO-SKIN BOND FAILURE N63-21661 22-17 COMMUNICATION SATELLITES - ECHO I, ECHO II, SCORE, COURIER, TELSTAR, RELAY AND SYNCOM MGIVATAGRENANT _ M63-17756 . 16-32 PROJECT SCORPIO - A PROPOSED SATELLITE SYSTEM FOR IMPROVING ATLANTIC MISSILE RANGE ACCURACY AND CALIBRATING OPERATIONAL MISSILE RANGE SYSTEMS M63-23307 24-30 SCOUT LAUNCH VEHICLE
CONING MOTIONS OF THE FINAL STAGES OF THREE NASA
SCOUT DEVELOPMENT VEHICLES
NASA-TN-0-1396
N63-10795
02-3 N63-10795 02-30 AERODYNAMIC CHARACTERISTICS AT HYPERSONIC SPEED OF 5TH STAGE SCOUT REENTRY VEHICLES AT MACH 0.6 TO 24.4 - REYNOLDS MUMBER EFFECTS NASA-TH-D-1638 12-31 ORBITAL ERROR ANALYSIS OF SCOUT RESEARCH VEHICLE NASA-TN-D-1639 13-31 HEAT TRANSFER AND PRESSURE DISTRIBUTION OVER REENTRY CONFIGURATION FOR FIVE-STAGE SCOUT VEHICLE NASA-TH-D-1790 N69-16294 19-30 EFFECTS OF SIMULATED BENDING AND FOURTH-STAGE
SIZE ON LOCAL PRESSURES AND NORMAL FORCE
DISTRIBUTIONS OF SCOUT VEHICLE MODEL AT MACH 3-10
MASA-TH-D-1799 M63-16427 14-02 SUPERSONIC WIND TUNNEL TESTING - SCOUT VEHICLE FIN LOAD AND TIP CONTROL HINGE MOMENTS MASA-TM-X-239 M63-17464 15-02 ALGOL SOLID ADCKET ENGINE DEVELOPMENT FOR SCOUT VEHICLE - BURNING RATE STUDY NASA-CR-50628 FREE FLIGHT SURFACE PRESSURE HOISE NEASUREMENTS
FOR SCOUT LAUNCH VEHICLE AT SUPERSONIC SPEEDS MITH
VARYING FREE STREAM PRESSURES AND REYMOLDS MUMBERS
NASA-TH-D-1818

18-05

N63-19191

N63-23148

SE

1 1 Se

AERODYNAMIC LOADING CHARACTERIS THREE-STAGE SCOUT VEHICLE AT MA WIND TUNNEL TESTS			BOOSTERS - CONGRESSIONAL REPORT N63-12292	05-01
	N63-18500	17-02	SEA DRAGON VEHICLE IN ROCKET SEA LAUNCH AND RECOVERY N63-13741	08-30
PROTONS IN OUTER RADIATION BELT SCINTILLATION SPECTROMETER	BY SCOUT ROC	CKET	SEALING AND	12.136 27
AFSHC-TDR-62-105	N63-18796	18-28	SA HERNETICAL SEAL	Tellis
STATIC LONGITUDINAL AERODYNAMIC SURFACE PRESSURE DISTRIBUTIONS			CF FILLER CF GASKET	44
VEHICLE MODEL NASA-TN-D-2026	N63-22945	23-02	SEALING OFF GAS FLOW BY AN EXPLOSIVE-OPERATI VALVE M63-12-1 N63-11190	130g : .
SCRAP HETAL			40.000.0	03-13
HIGH TEMPERATURE ALLOY RECLAMAT SCRAP METAL BM-R1-6230	N63-15723	12-18	ELASTOMERIC POLYMERS AS SEALS AT CRYDGENIC TEMPERATURES NBS-7234 N63-12706	06-1
CREEN VERSATILE FIELD ION MICROSCOPE SOLID NITROGEN COOLING & GRAIN	- APPLICATION		DEVELOPMENT OF SEALED SILVER OXIDE-ZINC SECON BATTERIES ASD-TDR-62-668 N63-12709	ONDARY C4-0
ELECTROMAGNETIC WAVE DIFFRACTIO			LINE DISCONNECTS FOR URANIUM PROCESSING FAC ORNL-3389 N63-12989	ILITY 07-0
GRATING WITH SCREEN JPRS-21329	N63-22965	23-08	FABRICATION OF GASKETS - PRODUCTION METHODS	-594
FUEL CELLS USING FLOODED FLOW E OR PLATINUM SCREEN		S1LVER 24-09	SELF-SEALING STRUCTURES FOR CONTROL OF METE HAZARD TO SPACE VEHICLE	OROID
CREW CF FASTENER			NSL-62-132-2 N63-13519	08-3
DEFORMATION MECHANISMS OF SURFA STRUCTURES WITH SCREW SHAPE ARC-R-72	CES FOR EXPAN	OA-34	HYPERVELOCITY PUNCTURING OF ELASTOMER SELF- STRUCTURE FOR SPACE VEHICLE NSL-63-53 N63-15390	SEALIN
CRUBBER MALINE AND ASSALAV TILAT	TO MARKOSSERIO NO	1164 - 1 H	PLUTONIUM RECYCLE TEST REACTOR PUMP OPERATION	THOSE
DRY SCRUBBER UNIT FOR LOW-LEAK UCRL-10953	VENTILATION S	SYSTEMS 23-23	EXPERIENCE - MECHANICAL SEAL LIFE HW-76646 N63-15675	12-
CUTUM CONSTELLATION VARIABLE STARS IN SCUTUM CONSTE	LLATION N63-16222	13-05	METAL TO CERAMIC SEALING TECHNIQUES NA-27-0001 N63-17420	15-
EA .	315778141	3,003,04	SEALING FOR CONNECTORS IN LAUNCH VEHICLES NASA-CR-50559 N63-18159	16-
SA BERING SEA A COMPARISON OF SHOCK AND VIBRA SEA, AND HIGHWAY TRANSPORTATION	TION FOR AIR,		ZERO-LEAKAGE CONNECTOR SEALS FOR LAUNCH VEH	9.58
SEAT AND HIGHWAY THANSPORTATION	N63-10098	01-22	SOLID LUBRICANT - FRICTION REDUCTION UNDER	4538
HYDROFOIL MOTIONS IN IRREGULAR	N63-11313	03-11	VACUUM - SEALING OF REMOVABLE HATCHES - POW TRANSMISSION THROUGH PRESSURE BARRIER NASA-TM-X-50141 N63-18484	ER 17-
DEVELOPMENT OF INFLATABLE PERSO ASTRONAUT SURVIVAL AT SEA	NAL EQUIPMENT	FOR	REPAIR OF LEAKAGE IN MANNED SPACE VEHICLE C	016123
NASA-TN-D-1083	N63-11740	04-16	PLASTIC & ADHESIVE SEALS ASD-TDR-62-1015 N63-18832	
GEOMAGNETISM AND GEOELECTRICITY AID-S-63-4	IN OCEANS AN N63-12137	05-12	SELF SEALING SPACECRAFT STRUCTURES IN METEO	ROID
HYDRODYNAMIC THEORY - CALCULATI SHIP IN WAVES	ON OF MOTION	OF	NASA-CR-50000 N63-18867	18-
TRG-140-FR	TO DE TOTAL CONTRACTOR	05-11	NONMETALLICS FOR SUPERSONIC TRANSPORT AIRCR PLASTIC AND GLASS SEALS AND SEALANT FOR FUE	
ART OFFICE TAR	N63-13010	07-21	CONTAINMENT, MECHANICAL PUMPS AND TIRES N63-18973	18-
PORPOISE PERFORMANCE TESTS IN A NAVWEPS-8060	M/9 19/74		DYNAMIC AND STATIC SEALS FOR LIQUID PROPELL	ANT
BIOGEOCHEMISTRY OF SULFUR ISOTO				19
METEORITES, MARINE SEDIMENT, SE SULFUR FRACTIONATION BY ANAEROS	A AND LAKE WA IC BACTERIA N63-20350	20-16	DYNAMIC AND STATIC SEALS FOR LIQUID PROPELL ROCKET ENGINES	
DIHEDRAL HYDROFOIL FULLY VENTED	Market of Service Control		NASA-CR-50663 N63-19595	
HEAVING AND PITCHING MOTION IN IRREGULAR SEAS R-958	LONG CRESTED	1000	DYNAMIC AND STATIC SEALS FOR LIQUID PROPELL ROCKET ENGINES - ANNOTATED BIBLIOGRAPHY NASA-CR-50661 N63-19596	ANT 19
EA DRAGON LAUNCH VEHICLE SEA DRAGON VEHICLE IN ROCKET SE	A LAUNCH AND		DYNAMIC AND STATIC SEALS FOR LIQUID PROPELL ROCKET ENGINES - ANNOTATED BIBLIOGRAPHY	ANT
RECOVERY	N63-13741	08-30	CERAMIC TO METAL SEALS FOR HIGH TEMPERATURE	11 1/16 11 1/16
EA LAUNCH PEARLY STORY STATESTING STA			THERMIONIC CONVERTERS RBESO-3404-3 N63-20369	20-
STANDARDIZATION TECHNIQUES, SEA		PLANE -	CERAMIC-TO-METAL SEALS FOR HIGH TEMPERATURE	P : 38

-01 -30

g.

-15

-19 ty -06 -07

17

34 NG. 34

25

30

34

19

27

27

27

27

17

OPERATIONS LANS-2917 AT MALLYMA SWAM CHARACO N63-20486 20-18	ASSMOD-TH-65-31 22 CT MASS 44 M65-16827 74 24-15
USE OF COMMONLY USED SATELLITE POTTING COMPOUNDS, SEALANTS AND RESINS MASA-TR-X-50354 N63-22052 22-19	SEATED POSITION SURVIVAL OF EXTREME VERTICAL IMPACT IN SEATED POSITION CART-62-19 *** CART-62-19 ************************************
NAMMED SPACE STATION SEALS AND CONNECTOR DEVICES NASA-CR-51303 N63-23023 24-32	HUMAN ENGINEERING - ANALYSIS OF SITTING AREAS AND PRESSURES CART-62-1 N63-16527 14-16
ORGANIC SEALANTS FOR CRYDGENIC TEMPERATURES MASA-CR-51727 MG3-23045 24-07	SECOND 113+1-104 PSIA1-Q17 SECOND 113+1-104 PSIA1-Q17
SEALING PROBLEMS WITH MANNED SPACECRAFT NASA-RP-39 24-30	SECONDARY EMISSION S CMA MOITARAIN TRAGEGRA SEAT CF ELECTRON BONBARDHENT DANDI-1830
LEAK DETECTION METHODS FOR SPACE VEHICLE SEALING SYSTEMS TESTS WITH BIBLIOGRAPHY NASA-CR-52323 N63-23808 24-17	TRAVELING WAVE TUBES, CRYSTAL LAMPS, CERAMIC WINDOWS, MAGNETS, SECONDARY EMISSION FROM TUNGSTEM SURFACE BOMBARDMENT, CRYSTAL FIELDS, GASEOUS MASER N63-14414 10-01
SEAPLANE CF AIRCRAFT INTERFERENCE OF JET EXHAUST FROM LARGE TRANSONIC SEAPLANE	SECONDARY EMISSION FROM CLEAN TUNGSTEN SURFACE BOMBARDED BY H, HE, N, NE, O, AR, & KR POSITIVE
MASA-TH-X-218 M63-12917 07-04	PROTECTION AGAINST RADIATION HAZARDS IN SPACE -
EFFECT OF GROSS LOAD AND BOW MODIFICATIONS ON MYDRODYNAMIC CHARACTERISTICS OF SUBSONIC MINE-LAYING SEAPLANE	BOOK II, DOSE MEASUREMENT AND SHIELD DESIGN FOR PRIMARY AND SECONDARY EMISSION TID-7652, BK. 2 N69-19198 11-28
MASA-TH-A-71	MEASUREMENT OF SECONDARY SPECTRA FROM MIGH-ENERGY MUCLEAR REACTIONS N63-15139 11-23
SUNDERLAND-V FLYING BOAT N63-13842 09-20	MEASUREMENT OF NUCLEAR SECONDARY PARTICLES FROM INTERACTION OF PROTONS N63-15141 11-32
AERODYMAMIC AND HYDRODYMAMIC CHARACTERISTICS OF PROPOSED SUPERSONIC MULTIJET SEAPLAME WITH VARIABLE INCIDENCE WING MASA-TH-X-249 N63-17254 15-02	SECONDARY-EMISSION DOSE CONTRIBUTIONS INDUCED BY SOLAR PROTON RADIATION - SPACECRAFT SHIELDING N63-15142 11-16
SEARCHLIGHT CF LIGHTING INSTRUMENTATION USED IN SEARCHLIGHT TECHNIQUES -	SOURCE POSITIONS AND EXIT PATHS FOR BEVATRON BEAMS UCRL-10705 14-24
ATMOSPHERIC OPTICS - LIGHT SCATTERING TECHNIQUES POLARIZATION - PHOTOMETERS AID-P-63-92 N63-19294 18-15	SECONDARY EMISSION DISCHARGE BETWEEN PARALLEL PLATE ELECTRODES SRI-TR-75 N63-17582 16-23
SEASONAL VARIATION RADIO NOISE MEASUREMENTS - MARCH, APRIL, MAY 1962 NBS-TN-18-14 N63-11047 03-08	ENERGY DOSAGE IN LUCITE PHANTOMS FROM SECONDARY ENISSION OF PROTON IRRADIATED TARGETS ORNL-3457 N63-19520 19-09
SEASONAL VARIATIONS IN WIND PROFILES IN AREA SOUTH OF RED SEA N63-12058 05-21	ENERGY DEPENDENCE OF SECONDARY EMISSION MONITOR BY RELATIVISTIC ELECTRON BEAM AMALYSIS M63-23247 24-15
CLIMATOLOGICAL WIND AND WIND VARIABILITY BETWEEN 150,000 AND 200,000 FEET - ROCKETSONDE ANS-TR-166 N63-14575 10-21	SECONDARY INJECTION TRANSPIRATION COOLING OF TURBULENT BOUNDARY LAYER
METEOROLOGICAL ANALYSES OF ROCKETSONDE WIND AND TEMPERATURE DATA FROM ATMOSPHERE RANGE - 30 TO 80-KM - SEASONAL VARIATION N63-17741 16-12	IN AXISYMMETRIC NOZZLE BY SECONDARY INJECTION OF HELIUM AND NITROGEN PIBAL-772 N63-15686 12-26
WHISTLER AND VERY LOW FREQUENCY EMISSIONS FROM SALTHOLM, DENMARK, 1960 TO 1961 - DIURNAL AND	FLOW INTERFERENCE CAUSED BY SECONDARY INJECTION IN ADVERSE PRESSURE GRADIENT NOZZLES - BOUNDARY LAYER PARAMETER INVESTIGATIONS NASA-CR-50606 N63-19939 19-02
SEASONAL VARIATIONS N63-19164 18-12 SEASONAL VARIATION IN HEAT BALANCE OF ATMOSPHERE OF MORTHERN HEMISPHERE - RADIATION AND CLIMATOLOGY	INTERACTION BETWEEN SUPERSONIC MAIN FLOW THROUGH DIVERGENT NOZZLE AND SECONDARY FLOW INTRODUCED
N63-19387 18-21 SEASONAL VARIATIONS IN BLOOD VOLUME AND	THROUGH SIDE OPENINGS ARL-63-102
CIRCULATING METABOLITE LEVELS OF ALASKAN HUSKY DOG AAL-TDM-62-53	SEDAN PROJECT - AIR TRAFFIC CONTROL DURING MUCLEAR DETONATION
ATMOSPHERIC ACOUSTIC STRUCTURE OF SUBPOLAR NORTHERN HEMISPHERE LATITUDES - SEASONAL VARIATION ERDA-63 N63-20469 20-12	PRE-205F N63-13450 12-01 SEISMIC EFFECT FROM HIGH YIELD NUCLEAR CRATERING EXPERIMENT IN DESERT ALLUVIUM - SEDAN PROJECT
STRATOSPHERIC CIRCULATION - SEASONAL VARIATIONS, KINETIC ENERGY BUDGET, WAVE NUMBER ANALYSIS, AND ZONE FLOW N63-21401 22-12	PNE-213F NOS-16202 13-12 EVALUATION OF PRESSURE PULSE TRANSDUCERS BY
SEAT TOO	MEASURING SEISMIC WAYE TRAVEL TIMES - SEDAN
FRENCH RESEARCH ON IMPACT AND CRASH - HUMAN TOLERANCE, AIRCRAFT ACCIDENTS, EJECTION SEATS N63-12850 07-16	PRE-235F N63-16803 13-12 OFF-SITE ENVIRONMENTAL SAMPLING AND NONITORING
LOW-FREQUENCY VIBRATION PROPERTIES OF NET CREW SEAT SYSTEM	DATA OF RADIOACTIVE CLOUDS - SEDAN PROJECT PHE-200F N69-16270 13-21

SEL

SEL

SEL

PLOWSHARE PROGRAM, SEDAN PROJECT - MASS DISTRIBUTION AND THROWOUT IN NUCLEAR EXPLOSION PNE-217F N63-20065 20-12	SEISHIC MAVE CF EARTHQUAKE MEASUREMENT OF GROUND WAVE MOTION IN HALITE -
PLONSHARE PROGRAM - SEDAN LONG RANGE BLAST	GNONE PROJECT PNE-120F N63-11928 06-21
PROPAGATION - MICROBAROGRAPHIC RECORDS OF AIR BLAST MAVES PNE-202F N63-20917 21-23	LEAST SQUARES METHOD OF CALCULATING SURFACE WAVE DISPERSION IN THE CRUST-MANTLE STRUCTURE OF THE
SEDIMENT	EARTH AFCRL-63-219 H63-12732 06-12
SEDIMENT DENSITY METER USING SCATTERED GAMMA RAYS TID-18124 N63-14211 09-15	UNDERGROUND EFFECTS OF NUCLEAR DETOMATION INPUT DATA FOR DESIGN OF PROTECTIVE STRUCTURES
FREE BOUNDARY MIGRATION AND FRACTIONATION OF CELL MIXTURES — SEDIMENTATION AND ELECTROPHORESIS UCRL-10640 N63-15319 12-11	DASA-1357/1/ SHOCK & ASSOCIATED GROUND NOTION DASA-1357/1/ N63-15835 13-0
BIOGEOCHEMISTRY OF SULFUR ISOTOPES - SULFUR IN METEORITES, MARINE SEDIMENT, SEA AMO LAKE WATERS -	SEISMIC EFFECT FROM HIGH YIELD NUCLEAR CRATERING EXPERIMENT IN DESERT ALLUVIUM - SEDAM PROJECT PNE-213F N63-16202 13-11
SULFUR FRACTIONATION BY AMAEROBIC BACTERIA N63-20350 20-16 SEEBECK COEFFICIENT	EVALUATION OF PRESSURE PULSE TRANSDUCERS BY MEASURING SEISMIC MAVE TRAVEL TIMES - SEDAN PROJECT
THERMOELECTRIC POWER OF FULLY IONIZED LOW	PNE-235F N63-16203 13-1
TEMPERATURE PLASMA - SEEBECK COEFFICIENT OF ALKALI METAL PLASMAS MATT-174 N63-13489 08-24	RAYLEIGH WAVE TRANSHISSION ON ELASTIC WEDGE -
THERMOCONDUCTIVITY, ELECTRICAL RESISTIVITY, AND	AFCRL-63-258 H63-16479 14-2
SEEBECK COEFFICIENT OF ENARGITE-TYPE COMPOUNDS 6M-RI-6200 N63-13536 08-23	SEISMIC WAVE AND EARTH STRUCTURE IN CANADIAN SHIELD PHASE VELOCITY MEASUREMENTS AFCRL-63-294 14-11
THERMOELECTRIC MATERIALS - RESISTIVITY & SEEBECK COEFFICIENT OF COPPER, NICKEL, & BISMUTH SULFIDES.	SEISMOMETER MEASUREMENT OF SEISMIC WAVE OF DEEP
CUPROUS TELLURIDE & LEAD TELLURIDE MIXTURES SRI-21 N63-16835 14-18	OCEAN FLOOR
	THE STATE OF THE PROPERTY OF T
THERMOELECTRIC MATERIALS - RESISTIVITY & SEEBECK COEFFICIENT OF MOLTEN CUPROUS SULFIDE AND CUPROUS SULFIDE-FERROUS SULFIDE COMPOSITION	SEISHIC SIGHALS AND NOISE DETECTED BY UNDERGROUND SEISHOGRAPH AFCRL-63-479 M63-18270 17-1
SRI-22 N63-16836 14-18 SEEDED PLASMA ALKALI METAL SEEDING OF CYLINDRICAL PLASMA FOR	COLLECTION OF GEOPHYSICAL MORKS, 1961 - ANDMALY, GRAVITATIONAL EFFECT, SEISHIC MAVE SHOCK, NONO- GRAM, ROCK STUDIES N63-18752 17-1
HIGH LEVEL ELECTRIC CONDUCTIVITY N63-23481 24-24	REFLECTION OF IMPULSIVE SPHERICAL WAVE AT PLANE INTERPACE BETWEEN TWO LIQUID ELASTIC MEDIA -
SEEDING A CLOSED LOOP MAGNETOHYDRODYNAMIC DEVICE WITH CESIUM SEEDED HELIUM FLOM N63-11289 03-24	SEISMIC MAVES NG3-18758 17-11 CONTINENTAL WAVES IN CENTRAL EUROPE - SEISMIC WAY
PRESSURIZED WATER REACTOR PROJECT - CORES,	PROPAGATION . N63-18759 17-1
SEEDING, DECONTAMINATION, METALLURGY WAPD-MRP-101 N63-12414 06-10	ELECTRONIC APPARATUS FOR PRECISE MEASUREMENT OF ELASTIC PARAMETER OF ROCKS - SEISMIC WAVES - KINEMATICS AND DYNAMICS N63-18760 17-18
SEEDED PLASMA — CHEMICAL AND IONIZATIOM PROCESSES, PLASMA PROPERTIES USING MICROMAVE TECHNIQUES N63-12693 06-24	VIBRATION MEASURING APPARATUS FOR MEASURING INTENSITY OF SEISMIC WAVE SHOCKS AS FUNCTION OF
HYDROGEN-DXYGEN COMBUSTION CHAMBER STUDY OF HOT	MAGNITUDE N63-18762 17-1
SEEDED PLASMA BY PROBE A-12 N63-12965 07-24	SEISHIC EFFECTS OF SMALL EXPLOSIONS ON BRICK BUILDING - SEISHIC WAVE SHOCK
VORTEX MAGNETOHYDRODYNAMIC GENERATOR - ELECTRIC	MG3-18763 17-N
POWER FROM SEEDED COMBUSTION GAS MIXTURE	FREQUENCY, ENERGY SPECTRA, AMPLITUDE, AND ATTENUATION OF SEISMIC SIGNALS
AND PORCE OF THE WILLIAM AT HOLD THE PROPERTY OF THE PROPERTY AND THE PROP	AFCRL-63-672 N63-19232 18-1
PHLOROGLUCINOL SEEDING OF UNDERCODLED CLOUDS N63-15787 13-21	PHOTOGRAPHING ENTIRE FIELD OF SEISMIC WAVE AFCRL-63-685 N63-22468 23-1
CLOUD FORMATION, SEEDING AND PHYSICS IN WEATHER MODIFICATION AND CONTROL	SEISHOGRAPH ALBRUSOV GOOJA HI ANGIYATRAV-DAKAZASA A
NSF-63-29 N63-19136 18-16	SA LUNAR SEISHOGRAPH SEISHOGRAPH FOR LUNAR EXPERIMENTS
MICROMAVE SCATTERING FROM CYLINDRICAL MITROGEN PLASMA, SEEDED WITH SODIUM, POTASSIUM, & CESIUM ARL-63-159 N63-22500 23-24	N63-12351 06-1
WHITEOUT SEEDING - DRY ICE PARTICLE SIZE, SEEDING	AFCRL-63-433 N63-17439 15-1
EFFICIENCY, AND PARTICLE SIZE	SEISHIC SIGNALS AND NOISE DETECTED BY UNDERGROUND
CRREL-124 N63-22979 23-21	SEISHOGRAPH AFCRL-63-479 N63-18270 17-1
SEEKER S HOWING DEVICE	SEISHOLOGY
11.07-714	SEISMOLOGICAL MEASUREMENTS OF REFRACTION ARRIVALS FROM CHEMICAL EXPLOSIONS IN ALBERTA, CANADA
SEGRE CHARACTERISTIC NILPOTENT OPERATORS, JORDAN CANONICAL FORM, SEGRE CHARACTERISTICS, AND MINIMAL POLYMONIALS	AFCRL-62-1121 N63-12789 06-1
CHARACTERISTICS, AND MINIMAL POLYNOMIALS N63-22742 23-20	EFFECT OF MID-ATLANTIC RIDGE ON DISPERSION OF

4-23 VE E 6-12

710m 3-61

3-12

3-12

1-23

1-12 1-21

7-15

7-12

1-12 IAVE 1-12

-12

-12

-12

-12

-15 -15

-15 L5 -12

MAYLEIGH WAVE		10-12	GRAIN BOUNDARY SELF-DIFFUSION IN HIGH PURITY LEAD
UNDERGROUND EFFECTS OF NUCLEAR INPUT DATA FOR DESIGN OF PROTEC AIR SLAST, GROUND SHOCK & ASSOC	DETONATION - TIVE STRUCTU TATED GROUND	RES -	SELF-DIFFUSION IN ANTHRACENE SINGLE CRYSTALS BY RADIOACTIVE TRACERS B2130-T-1 R63-23078 24-07
DASA-1357/1/ DIGITAL FILTER AND APPLICATION DETECTION AND DISCRIMINATION - AFCRI-63-604			SELF-ENERGY OPERATOR PERTURBATION THEORY RULES FOR COMPUTING SELF- ENERGY OPERATOR IN QUANTUM STATISTICAL MECMANICS UCR10562 No3-13565 08-23
EARTHQUAKES AND EXPLOSIVE SEISM JPRS-20465	1149. 20024	19-12	SELF-LUMINOUS BODY CF ELECTROLUMINESCENCE CF FLUORESCENCE
MULTISENSOR SEISHIC ARRAY TECHN AFCRL-63-894		23-12	APPAGE OF THE CONDUCTIONS AND
SELENIDE EFFECTS OF AGING ON LEAD SELENI DETECTORS		OUCTIVE	SELF-PROPELLED VEHICLE FLOW INDUCED BY A SELF-PROPELLED VEHICLE IN A TUBE FOR HIGH SPEED LAND TRANSPORTATION TR-AE-6204 N63-10439 01-27
NOLC-576 PROPERTIES OF PHOTODETECTORS - SELENIDE, INDIUM ANTIMONIDE, TH	DATA ON LEAD	06-15 ELLS,	SELF-PROPELLED GETOL MODEL AIRCRAFT PROPULSION SYSTEM UTIA-TN-64 N63-14354 10-27
AND GOLAY DETECTOR CELL NOLC-564	N63-16668	14-06	SELF-SCANNING SOLID-STATE SELF-SCANNING DISPLAY DEVICE
LEAD SELENIDE - ELECTRIC & ELEC OF SENICONDUCTOR MATERIALS	TRONIC PROPE	RTIES 20-25	RADC-TDR-62-601 N63-15829 13-25 SENICIRCULAR CANAL
DS-116 THERMOELECTRIC PROPERTIES OF SE TELLURIDES OF 5B AND 6B METALS SOLUTIONS	LENIDES AND	1983	SENSITIVITY OF SEMICIRCULAR CAMALS DURING METEMTLESSNESS TESTED BY VISUAL PERCEPTION OF TARGET ROTATION
SELENIUM AND REFLECTION OF LI SELENIUM IN EXTREME VACUUM ULTR X-RAY REGIONS AROO-2588-3	THIUM FLUORI	DE AND	SAM-TOR-62-148 M63-16126 13-16 SEMICONOUCTOR CF INSULATOR CF INTERMETALLICS CF TRANSISTOR RESEARCH ON METAL CONTACTS TO SEMICONDUCTORS
STRUCTURAL ANALYSIS OF COPPER-A THERMOELECTRICAL MATERIALS	NTIMONY-SELE N63-16838	14-18	AROD-2838-1 N63-10367 01-25 EXCESS NOISE IN SENICONDUCTORS
MAXINIZING PHOTOCONDUCTOR PERFO EFFECT IN VITREOUS SELENIUM, CA CRYSTALS	DMIUM SULFIC	E	DESIGN OF DETECTOR CIRCUITS USING SENICONDUCTOR DIODES N63-10475 01-09
SELENIUM COMPOUND SELENIUM DIOXIDE OXIDATION OF O	LEFINS	10-25	EFFECT OF CRYSTALLINE IMPERFECTIONS UPON THE ELECTRICAL PROPERTIES OF SEMICONDUCTING INTERMETALLIC COMPOUNDS M63-10408 01-25
PREVENTION OF RADIATION FATALIT OF SELENIUM SALTS AFTER X-RAY I	RRADIATION	TRATION	MOT ELECTRON EMITTER AFCRL-62-772 M69-10507 01-25
FTO-TT-62-1227/16364 SELENGRAPHY	H63-23726		MAGNETIC FIELD MEASUREMENTS WITH HALL GEMERATORS USNROL-TR-559 N63-10658 02-23
CF LUMAR GEOLOGY CF LUMAR MAP CF LUMAR SURFACE	THE WELLS	1498	RADIATION EFFECTS ON THERMOELECTRIC GENERATORS - BISMUTH TELLURIDE USNROL-TR-381 N63-10909 02-23
CF LUNAR TOPOGRAPHY LUNAR SELENOGRAPHY - REDETERMIN CONSTANTS, LUNAR SPHERICITY MEA	ATION OF LIE SUREMENTS,	9-5-800m-7-5	RADIATION EFFECTS IN GALLIUM ARSENIDE N63-10927 02-23
MICRORELIEF PHOTOINTERPRETATION AFCRL-63-406	N63-15223	11-29	EFFECTS OF SPACE RADIATION ON ELECTRONIC COMPONENTS N63-10928 02-09
LEAST SQUARES METHOD STATISTICA LUNAR SURFACE GEOMETRY	N63-23311	24-29	TRAVELING WAVE TUBE, COPPER EXCITATION, GALLIUM ARSENIDE AND SEMICONDUCTORS N63-11218 03-09
SELF-ADAPTIVE SYSTEM CF ADAPTIVE CONTROL SATELLITE BOOSTER CONTROL		01-31	EXCITED STATES OF COPPER IN SEMICONDUCTORS
GROUP DECISION-MAKING AND COMMU UNDER CONDITIONS OF STRESS AND SELF-ORGANIZING SYSTEM	OVERLOAD IN	AND ALICE	SEMICONDUCTOR MONITOR FOR NUCLEAR RADIATIONS N69-11222 03-15
SELF-ADJOINT EQUATION OPTIMAL CONTROL OF SELF-ADJOINT VELOCITY CONTROL OF TUMBLING SP	SYSTEMS - A	INGULAR	MICRONAVE EMERGY CONVERSION BY SENICONDUCTOR DIODE, NOT CATHODE, OR BULK SENICONDUCTOR RECTIFICATION WADD-TR-61-48, PT. III M63-11638 84-09
NS-709 AND THE PROPERTY STATES	N63-12842	90.89	SEMICONDUCTING MATERIALS - PHOTOCONDUCTIVITY. DIELECTRIC CONSTANT, AND THERMOCONDUCTIVITY M63-11967 05-25
SINGLE-CRYSTAL TUNGSTEN	N63-15929	13-25	THERMOELECTRIC PHENOMENA - THERMOCONDUCTIVITY OF SERICONDUCTORS BY SERIES COMPARATIVE RETHOD

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TI

TRANSPORT PROPERTIES OF POLAR SEMICONDUCTORS WITH POWER GENERATION
NASA-TN-0-1695
N63-14276
10-15

N63-11968 05-25 SEMICONDUCTING PROPERTIES OF BORON PHOSPHIDE -	ELECTRON THEORY OF CRYSTALS WITH IONIC LATTICES. DIELECTRICS AND SEMICONDUCTORS AEC-TR-5575 N63-14412 10.00
CRYSTALLOGRAPHY N63-11969 05-25	- AND STANDARD CONTRACTOR OF THE STANDARD AND STANDARD AN
PHOTOCONDUCTIVITY OF SEMICONDUCTORS - ZINC- TELLURIUM AND ZINC DXIDE N63-11970 05-25	CRYSTAL LAMPS - LIGHT EMISSION FROM MINORITY CARRIERS INJECTED AT P-N JUNCTION IN GALLIUM PHOSPHIDE M63-14416 10-28
ORGANIC POLYMERS AS SEMICONDUCTORS N63-12101 05-25	CARRIER IMJECTION ELECTROLUMINESCENCE IN CRYSTAL GROWTH AND WIDE-GAP SEMICONDUCTORS AFCRL-63-62 N63-14869 11-N
PROTON DAMAGE TO SILICON SOLAR CELLS N63-12417 06-06	AFCRL-63-62 N63-14069 11-8 RADIATION MEASUREMENTS FROM ULTRAVIOLET TO INFRARED AND ENERGY CONVERSION USING SEMICONDUCTOR
INVESTIGATIONS OF SURFACE PROPERTIES OF SILICON AND OTHER SEMICONDUCTORS	SOLAR CELLS N63-14942 11-15
AFCRL-62-949 N63-12643 06-25	CYCLOTRON RESONANCE AND MAGNETO-OPTICAL EFFECTS IN SEMICONDUCTORS N63-14994 11-8
METHOD FOR DISTINGUISHING HIGH ENERGY PROTONS AND MESONS HAVING SAME IMPULSE, BASED ON NIP JUNCTION CHARACTERISTICS IN SILICON DIDDES M63-12672 06-09	DESIGN OF HIGH FREQUENCY SILICON CARBIDE SOLID STATE DEVICE FOR HIGH TEMPERATURE - SEMICOMOUCTORS AFCRL-63-61 N63-14996 11-00
EXPERIMENTAL TECHNIQUES FOR PREPARING METAL OR SEMICONDUCTOR SURFACES FOR USE IN ADSORPTION	FUNDAMENTAL SIZE LIMITATIONS FOR SEMICONDUCTOR MICROSTRUCTURES
STUDIES N63-12675 06-25	AFCRL-63-12 N63-15104 11-8
GENERATION OF COHERENT VISIBLE RADIATION AND ELECTRICAL PROPERTIES OF GALLIUM P-N JUNCTIONS AFCRL-63-20/B/ N63-12677 06-09	MEASUREMENT 10 GC/S MICROMAVE TRANSMISSION - USING HALL EFFECT IN SEMICONDUCTOR CRYSTALS N63-15111 11-25
SENICONDUCTING FILM TRANSISTOR OF CADMIUM SULFIDE AFCRL-62-965 07-09	SURFACE EFFECTS OF RADIATION ON SEMICONDUCTING TRANSISTOR CIRCUITS - RADIATION HAZARD N63-15124 11-25
MICROWAVE INTERACTIONS AT CRYSTAL DEFECT CENTERS - ELECTRON SPIN RESONANCE, LASER, SOLID STATE PHYSICS, INTERMETALLICS, DETECTORS	PROTON RADIATION DAMAGE IN SEMICONDUCTING TRANSISTOR DEVICES - RADIATION HAZARD
N63-13121 07-23	N63-15127 11-8
SOLID STATE INSTRUMENTATION - CHARGED PARTICLES, SEMICONDUCTOR, DETECTORS N63-13125 07-15	BIBLIOGRAPHY OF GROUP II TO VI SEMICONDUCTING COMPOUNDS - ELECTRIC CONDUCTIVITY - OPTICAL PROPERTY - DIELECTRICS - DIFFUSION, VOL. 2
EFFECT OF ION BOMBARDMENT ON CARRIER LIFETIME, PHOTOCONDUCTIVITY AND SURFACE STRUCTURE OF GERMANIUM CRYSTALS — SENICONDUCTORS	AFCRL-62-917/II/ N63-15162 11-8 BIBLIOGRAPHY OF GROUP III TO V SENICONDUCTING
ARF-3190-6 N63-13197 07-25 HIGH TEMPERATURE SEMICONDUCTOR COMPOSED OF	COMPOUNDS - ELECTRIC CONDUCTIVITY - OPTICAL PROPERTY - DIELECTRICS - DIFFUSION, VOL 3 AFCRL-62-917/III/ N63-15163 11-8
GALLIUM ARSENIDE AND GALLIUM PHOSPHIDE AFCRL-62-944 N63-13210 07-25	BIBLIOGRAPHY OF SEMICONDUCTING ELEMENTS AND THEIR COMPOUNDS - PERIODIC GROUP IV ELEMENTS
EFFECT OF PRESSURE ON ENERGY LEVELS OF IMPURITIES IN SEMICONDUCTORS - SILICON & GERMANIUM	AFCRL-62-917/1V/ N63-15164 11-8
N63-13346 08-25 EFFECT OF PRESSURE ON ARSENIG, INDIUM, & ALUHINUM	FIELD EMISSION CURRENT IN MAGNETIC FIELD APPLIED TO SEMIMETALS AND SEMICONDUCTORS N63-15298 12-23
IN SILICON N63-13347 08-25	SEMICONDUCTOR TECHNOLOGY - SILICON AND GERMANIUM
EFFECT OF PRESSURE ON GOLD IN SILICON N63-13348 08-25	JPRS-17351 N63-15700 12-5 SOLID STATE PHYSICS RED - SEMICONDUCTORS,
EFFECT OF PRESSURE ON GOLD IN GERMANIUM N63-13349 08-25	MAGNETOELASTICITY, ACOUSTICS OF SILICON OXIDE, LASERS FOR HIGH SPEED PHOTOGRAPHY, AND ALLOYS NOLTR-62-125 13-25
COMPOUNDS AND ALLOYS OF MAGNESIUM, TIN, COPPER, LEAD AND GERMANIUM AS SEMICONDUCTORS IN THERMOELECTRIC POWER GENERATION TCREC-TR-62-112 N63-13507 08-25	ELECTRON DELOCALIZATION & BIOCHEMICAL EVOLUTION - ROLE OF RESONANCE AND SEMICONDUCTIVITY IN BIOCHEMICAL STRUCTURES N63-15849 13-14
FIELD EMISSION SPECTROMETER TO MEASURE ELECTRON EMERGY DISTRIBUTION IN SEMICONDUCTORS N63-13593 08-15	IMPURITY ELECTRONIC STATE ASSOCIATED WITH SUBSIDIARY ENERGY BAND MINIMA IN SEMICONDUCTORS N63-15875 13-8
PHOTOMAGNETOELECTRIC EFFECT IN GRADED-GAP GERMANTUM SEMICONDUCTORS AFCRL-63-226 N63-13682 08-25	FFECT OF GAMMA IRRADIATION ON ELECTRICAL PROPERTIES OF SEMICONDUCTING OXIDE FILMS FTD-TT-62-414/144 N63-15904 13-25
RECOMBINATION AND DIFFUSION PHENOMENA IN SILICON SENICONDUCTORS N63-14063 09-25 DIAHOND AS A SEMICONDUCTOR - CRYSTAL STRUCTURE,	FAILURE MECHANISMS IN ELECTRONIC COMPONENTS AND MATERIALS — TEST METHODS DEVELOPMENT, RESULTS FOR SEMICONDUCTORS, TRANSISTORS, DIODES, FERRITES RADC-TDR-63-30
DEFECTS, AND IMPURITIES - ABSORPTION SPECTRA, FLUORESCENCE AND ELECTROLUMINESCENCE AFCRL-62-535 N63-14218 09-19	DIELECTRIC, SPECTROSCOPIC, AND PHOTOCONDUCTIVE PROPERTIES OF ORGANIC COMPOUNDS FOR SEMICONDUCTORS

TOTAL STATE OF THE	43
CRYSTAL LAMPS - LIGHT EMISSION FROM MINORITY CARRIERS INJECTED AT P-M JUNCTION IN GALLIUM PHOSPHIDE N63-14416 10	-8
CARRIER INJECTION ELECTROLUMINESCENCE IN CRYSTAL GROWTH AND WIDE-GAP SEMICONDUCTORS AFCRL-63-62 N63-14869 [1]	-8
RADIATION MEASUREMENTS FROM ULTRAVIOLET TO INFRARED AND ENERGY CONVERSION USING SEMICONOUS SOLAR CELLS	TOR
CYCLOTRON RESONANCE AND MAGNETO-OPTICAL EFFECTS SEMICONDUCTORS N63-14994 11	IN
DESIGN OF HIGH FREQUENCY SILICON CARBIDE SOLID STATE DEVICE FOR HIGH TEMPERATURE - SEMICONDUCT AFCRL-63-61 N63-14996 IL	DRS -09
FUNDAMENTAL SIZE LIMITATIONS FOR SEMICONDUCTOR MICROSTRUCTURES	
AFCRL-63-12 N63-15104 11	-25
HALL EFFECT IN SEMICONDUCTOR CRYSTALS	1N; -25
SURFACE EFFECTS OF RADIATION ON SEMICONDUCTING TRANSISTOR CIRCUITS - RADIATION HAZARD N63-15124 11	-25
PROTON RADIATION DAMAGE IN SEMICONDUCTING TRANSISTOR DEVICES - RADIATION HAZARD	
BIBLIOGRAPHY OF GROUP II TO VI SEMICONOUCTING COMPOUNDS - ELECTRIC CONDUCTIVITY - OPTICAL PROPERTY - DIELECTRICS - DIFFUSION, VOL. 2	
BIBLIOGRAPHY OF GROUP III TO V SEMICONDUCTING	-8
COMPOUNDS - ELECTRIC CONDUCTIVITY - OPTICAL PROPERTY - DIELECTRICS - DIFFUSION, VOL 3 AFCRL-62-917/III/ N63-15163 II	-25
BIBLIOGRAPHY OF SEMICONDUCTING ELEMENTS AND THE COMPOUNDS - PERIODIC GROUP IV ELEMENTS AFCRL-62-917/IV/ N63-15164 11	-25
FIELD EMISSION CURRENT IN MAGNETIC FIELD APPLIE TO SEMIMETALS AND SEMICONDUCTORS N63-15298 12	-23
SEMICONDUCTOR TECHNOLOGY - SILICON AND GERMANIU	
SOLID STATE PHYSICS RED - SEMICONDUCTORS, MAGNETOELASTICITY, ACOUSTICS OF SILICON OXIDE, LASERS FOR HIGH SPEED PHOTOGRAPHY, AND ALLOYS NOLTR-62-125 N63-15802 13	1-25
ELECTRON DELOCALIZATION & BIOCHEMICAL EVOLUTION ROLE OF RESONANCE AND SEMICONDUCTIVITY IN BIOCHEMICAL STRUCTURES N63-15849 13	-16
IMPURITY ELECTRONIC STATE ASSOCIATED WITH SUBSIDIARY ENERGY BAND MINIMA IN SEMICONDUCTORS N63-15875 13	-25
EFFECT OF GAMMA IRRADIATION ON ELECTRICAL PROPERTIES OF SEMICONDUCTING OXIDE FILMS FTD-TT-62-414/144 N63-15904 13	1-25
FAILURE MECHANISMS IN ELECTRONIC COMPONENTS AND MATERIALS - TEST METHODS DEVELOPMENT, RESULTS F SEMICONDUCTORS, TRANSISTORS, DIODES, FERRITES RADC-TDR-63-30 N63-16106 13	OR 3-25
DIELECTRIC, SPECTROSCOPIC, AND PHOTOCONDUCTIVE PROPERTIES OF ORGANIC COMPOUNDS FOR SEMICONDUCT ARF-3142-12 N63-16112 13	ORS 9-25
ENERGY CONVERSION OF SEMICONDUCTOR ELECTRODES F FUEL CELL APPLICATIONS - LITHIATED NICKEL OXIDE ZINC OXIDE, ANTHRACENE, & PHEMANTHRENE DATA	

Es -10-25

10-25 TAL 11-25

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3-25 N -3-16

3-25

3-25

FOR

TORS 3-25 OR .

ASD-TDR-62-89	N63-16113 13-25	NASA-TH-X-50236 NASA-20210 20-23
THERMOCONDUCTIVITY - HETALS,		SILICON SEMICONDUCTOR PHOTON ENERGY ABSORPTION
SENICONDUCTORS ASD-TDR-62-74	N63-16305 13-25	05-117 : 24 ALAGUE ROT SHONGOINES - N63-20203 20-25
PLASMA GENERATION BY SE	HICONDUCTOR CRYSTAL IN	SILICON SEMICONDUCTOR MATERIAL - CONDUCTIVITY DATA DS-126 N63-20289 20-25
SENICONDUCTOR RADIATION DETECTO		GALLIUM PHOSPHIDE SEMICONDUCTOR - ELECTRIC AND
OBSERVATIONS ASD-TDR-62-838	N63-16412 14-25	ELECTRONIC PROPERTIES 05-111 M63-20296 20-25
PRODUCED BY CHEMISORPTI	F METALS AND SEMICONDUCTORS ON ON SURFACES WITH RPTION SITES M63-16721 14-23	LEAD TELLURIDE SENICONDUCTOR - ELECTRIC AND ELECTRONIC PROPERTIES 05-113 N63-20297 20-25
	ORGANIC SEMICONDUCTORS N63-16739 14-07	MAGNESIUM STANMIDE SEMICOMDUCTOR - PHOTON EMERGY ABSORPTION, MALL COEFFICIENT, AMD OTHER ELECTRIC PROPERTIES
ELECTRICAL RESISTIVITY	OF SEMICONDUCTING DIAMOND	DS-114 N63-20298 20-18
AT HIGH TEMPERATURE	N63-17054 15-25	ALUMINUM ANTIMONIDE SEMICONDUCTOR - ELECTRIC AND A ELECTRONIC PROPERTIES DS-110 - 10 - 10 - 10 - 10 - 10 - 10 - 10
CIRCUIT ANALYSIS - SEMI	CONDUCTOR SAMPLE AND HOLD	SILICON SEMICONDUCTOR MATERIAL - DIELECTRIC
EID-61 ACACHAGATY	N63-17064 15-09	CONSTANT DATA DS-119
SOLID STATE DEFECT STRU	CTURES - SEMICONOUCTOR N63-17350 15-25	INDIUM ANTIMONIDE SEMICONDUCTOR - ELECTRIC AND
HICROELECTRONICS RED -	SEMICONDUCTOR, FIELD EFFECT	ELECTRONIC PROPERTIES DS-121 SAFE MANE EVILLA CARE N63-20304 AV 20-25
7EC 708.5	N63-17355 15-09	SILICON SEMICONDUCTORS - DEBYE TEMPERATURE DS-118 N63-20375 20-25
MICROWAVE APPARATUS USI MICROELECTRONICS	NG SEMICONDUCTOR N63-17356 15-09	GALLIUM ANTIHONIDE SEMICONDUCTOR DATA - ELECTRIC
GOLD-SILICON METAL-SEMI AFCRL-63-113		AND ELECTRONIC PROPERTIES DS-112 N63-20361 20-25
SEMICONOUCTOR DETECTOR	PULSE HEIGHT RESPONSE TO GY ABSORPTION	LEAD SELENIDE - ELECTRIC & ELECTRONIC PROPERTIES OF SEMICONDUCTOR MATERIALS DS-116 N63-20401 20-25
	STATE ELECTROLYTES - FECTS IN SEMICONDUCTORS N63-17495 16-25	GALLIUM ARSENIDE - ELECTRIC & ELECTRONIC PROPERTIES OF SEMICONDUCTOR MATERIALS DS-115 N63-20402 20-25
	UCTOR ELECTRONIC CIRCUITS	RADIOISOTOPIC SEMICONDUCTORS - ELECTRON BETA- VOLTAIC EFFECT & AUGMENTING SEEBECK EFFECT IN STRONTIUM-90 & CERIUM-144 MND-2584-4 No3-20652 20-25
PROTON-NEUTRON DAMAGE C	INCHES STRAININGTE OF	NETWORK PROPERTIES OF SENICONDUCTOR P-N JUNCTION
	N SOLAR CELLS & RADIATION	CIRCUITS NYU-TR-400-81 459000 -8300M 3AMAON63-20717 21-09
NASA-CR-50422	V. 100A ERSIVAD DEVICES AROLY	PHOTOVOLTAIC EFFECT IN CELLS CONSTRUCTED
IN SPACE APPLICATIONS -	MATERIALS AND COMPONENTS CERAMICS, PLASTICS,	ON SEMICONDUCTOR SURFACES AFCRL-63-815 ATTEMPTED TO CALLES N63-20719 10021-25
ADHESIVES, SEMICONDUCTO	RS AND RESISTORS	HANUFACTURING PROCESS FOR SILICON SENTGONOUCTOR
HIGH-ENERGY RADIATION D	AMAGE TO SEMICONDUCTORS -	NETWORKS ASD-IR-7-865/VI/ 304940 401/A104 N63-21008 0 21-09
ANALYSIS OF FAILURE MECHADO-TOR-63-226	TEC MOTTA N63-19465 Mc19-25	HIGH FREQUENCY CONDUCTIVITY OF DEGENERATE SENICONOUCTORS
SEMICONDUCTOR MATERIALS		MATT-189 M63-21158 21-24 M63-21158 21-24 M63-21158 M63-2
White a SASSESTEAM WAY H	73-96, 239 N63-19525 gr 19-07 NATACARTYA (MESAZZA)	SEHICONDUCTOR MANUFACTURING - SILICON DIFFUSED TRANSISTOR RELIABILITY M63-21165 21-09
DUSINETRY	S, FLUIDS, CERANICS, THAT	SEMICOMOUCTOR MANUFACTURE - SILICON DIFFUSED TRANSISTOR RELIABILITY 1939 VILV N63-21166 21-09
ELECTRONIC STRUCTURE OF X-RAY DIFFRACTION MEASU	CRYSTALLINE MATERIALS -	DAMAGE TO SILICON INDUCED BY RADIATION - REVIEW OF CHANGES IN SEMICONDUCTOR PROPERTIES MASA-CR-51044 M63-21176 21-23
INTEGRATED CIRCUIT TECH	NOLOGY - THIN FILM & SEMI-	NONEQUILIBRIUM SURFACE POTENTIAL CALCULATIONS FOR SEMICONDUCTORS
AEBE-W-003	N63-20117 20-09 PULSE FREQUENCY MODULATION N63-20122 20-09	SYNTHESIS OF SEMICONDUCTOR MATERIALS USING MUCLEAR RADIATION NOO-10472 N69-21315 21-25
режением то обществу при	CONDUCTIVITY DISPERSION	SEMICONDUCTOR RELIABILITY IMPROVEMENT NOT DESCRIPTION
IN PLASHAS AND SEMICOND	UCTORS - MAXWELLIAN ENERGY	PSI-3000-43-Q-3 N63-21391 22-18

RESISTIVITY MEASUREMENTS AND P VOLTAGE DUE TO HALL EFFECT OF DIAMONDS	SEMICONDUCTIN	iG	IMPURITIES AFCRL-62-774/A/	
AFCRL-63-309		22-19	PROTON PARTICLE ENERGY	NOUCTOR DEVICES DUE TO N63-13533 08-2
MAGNESIUM SILICIDE SEMICONDUCT ELECTRONIC PROPERTIES 05-104	M63-21797		RADIATION EFFECT ON SEMICORESULTING FROM NEUTRON AND	GAMMA PARTICLE ENERGY
RESISTIVITY OF THIN GOLD FILMS SUBSTRATES & FABRICATION OF HO		2 300	FABRICATION OF SEMICONDUCT	' N63-13534 08-2
TRIODE EMITTERS	N63-22081	22-09	TRANSMUTATION DOPING	N63-14216 09-2
EFFECT OF NUCLEAR RADIATION AT TEMPERATURE ON SEMICONDUCTOR H	ATERIALS -	22-23	SILICON PLANAR DIODES AS O WHEN OPERATED IN THE AVALA TR-1099	NCHE REGION 10-0
REIC-30	N63-22129		FORMATION OF THERMAL OXIDE	S OF SILICON AND SURFAC
LOWER THRESHOLD OF STIMULATED GALLIUM ARSENIDE SENICONDUCTOR		23-25	AFCRL-63-21	N63-14533 10-0
E (- GOTO CAVE DE - GOTO ES ASSELLACIONES			TRANSIENT RADIATION EFFECT	
TRANSISTOR - SEMICONDUCTOR INT AFCRL-63-331	N63-22360		COMPONENTS AND SEMICONDUCT AND NEUTRONS REIC-26	BURN ARRIVERS HERE
FAILURE MECHANISMS IN SILICON RADC-TDR-63-326	SEMICONDUCTOR: N63-22547		APPLICATION OF SENICONDUCT	OR DEVICE TO HIGH POWER
ULTRAHIGH VACUUM DEPOSITION OF			RADC-TOR-63-88	N63-15336 12-2
GERMANIUM SEMICONDUCTOR FILMS ELECTRON DIFFRACTION, AND HALL	EFFECT		HIGH TEMPERATURE SEMICONDU	CTOR DEVICE - GALLIUM
Q445-3 (1875) 187 - 1675(180) 187	N63-22632	23-09	ARSENIDE ASD-TDR-63-59	
HIGH VACUUM DEPOSITED ACTIVE T SEMICONDUCTORS, DIODES, AND TR Q445-4	ANSISTORS N63-22633	23-09	FABRICATION & EVALUATION OF PROBES FOR IN VIVO MEASURE	F 3-HM DIAMETER MEDICAL MENT - MEDICAL &
GALVANOMAGNETIC EFFECTS IN POL			BIOLOGICAL SEMICONDUCTOR C NASA-CR-50521	N63-18369 17-1
SEMICONDUCTORS NASA-TN-D-1840	N63-22709	23-09	SEMICONDUCTOR DEVICES FOR	HIGH POWER DUPLEXERS
SEMICONDUCTOR THIN FILMS	N63-22789	23-09	SEMICONDUCTOR DEVICE CONCE	
PROTON RADIATION DAMAGE TO SIL NASA-CR-51532	ICON SEMICONDO N63-22890		PROPERTIES OF GALLIUM ARSE JUNCTION LASERS AFCRL-63-120/8/	NIDE PHOSPHIDE P-N
CHARGED PARTICLE RADIATION DAM SEMICONDUCTORS - EFFECT OF 1-M	AGE IN		CADMIUM SULFIDE SEMICONDUC	
BOMBARDMENT ON SOLAR CELLS NASA-CR-51529	N63-22892	23-06	OF ALUNINUM INTO ZINC SELE	
CHARGED PARTICLE RADIATION DAM			CONTAMINATION ENCOUNTERED	
SEMICONDUCTORS - ELECTRON DAMA CELLS		SOLAR	SYNTHESIS - SEMICONDUCTOR AFCRL-63-323/48/	
NASA-CR-51533	N63-22893	23-06	INJECTION ELECTROLUMINESCE	NCE OBSERVED AT SOME
PIEZOELECTRIC SEMICONDUCTORS F AMPLIFICATION - NORMAL MODES, DRIFTING CARRIERS			HETEROJUNCTIONS - SEMICOND AFCRL-63-323/4A/	
ML-1057	N63-22912	23-25	SEMICONDUCTOR DEVICES APPL DUPLEXERS	IED TO HIGH POWER
THERMODYNAMIC PROPERTIES OF IN SEMICONDUCTOR COMPOUNDS & KNUD			RADC-TDR-63-316	N63-21791 22-0
AFCRL-63-156 CHARGED PARTICLE RADIATION DAM	N63-22957	23-09	RELATIONSHIP BETWEEN LOW F FAILURE IN RESISTORS AND S RADC-TDR-63-338	EMICONDUCTOR DEVICES
SEMICONDUCTORS - ENERGY DEPENDED	ENCE OF PROTOR		SEMICONDUCTOR RADIATION DE	HORE CONCURSION STORY
NASA-CR-51742	N63-23007		RADIOBIOLOGY SAM-TDR-63-25	
PHONON INTERACTION WITH CHARGE SENICONDUCTOR TRANSPORT MECHAN		24-25	SEMICONDUCTOR PROCESS DEVE ATTACHMENT, EPITAXIAL GROW	LOPHENT - LEAD
HICROWAVE STUDIES OF SEMICONDU			SEMITRANSPARENT MATERIAL	TO THE OWNER OF THE PARTY WAY TO SHARE
CONDUCTIVITY BY CAVITY PERTURBA AFCRL-63-378	ATION THEORY N63-23347	TARKSTS	TRANSMISSION OF OPTICAL MA MEDGE ANGLE AND REFRACTIVE RANGE	TERIALS AS AFFECTED BY
SOLID STATE INFRARED DETECTION AND SEMICONDUCTORS		RICS	NAVWEPS-8086	
ASD-TDR-62-977	N63-23809	24-25	SENSATION	Many Committee of the state of
ICONDUCTOR DEVICE			S TACTILE SENSATION SENSING	MEGRATED CTACULT LECTOR
				CONTRACTOR STATE OF THE PARTY O
SOLIO STATE DEVICE			TORQUES AND ATTITUDE SENSI SYNCHRONOUS SATELLITES	NG IN SPIN-STABILIZED
ELECTRON TUBE		20HT0000 11	TORQUES AND ATTITUDE SENSI	NG IN SPIN-STABILIZED N63-13301 07-3

1-25 TO 0-23

64 8-53 N 8-52

ORS 0-09 FACE 0-09

145 3-09

/ER !-25 !-09

-15

-

-25

ON -25

-25

-25

-06

16

ON 25

30

AFCRL-63-64	N63-16438 14-34	NOTCH SENSITIVITY OF REFRACTORY METALS # 18-18-18
PUNTING AND DOME	D TESTING OF HORIZON SENSOR N63-18158 16-33	VISCOELASTICITY AND IMPACT SENSITIVITY OF BISPHENOL-A POLYCARBONATES CMR-TR-RLT-40 N63-19101 18-07
TIVITY .		
AADIOSENSITIVITY IQUID PROPELLANT SENSI LASH-IRRADIATION TESTS NF-3197-15	TIVITY, SHOCK TUBE AND	TITANIUM OXYGEM REACTIVITY - SHOCK AND IMPACT SENSITIVITY IN SPACE VEHICLE ENVIRONMENT MASA-TM-X-50209 M63-19264 (18-18
PECTRAL SENSITIVITY OF	2027350230 93	SHOCK SENSITIVITY CHARACTERISTICS OF LIQUID EXPLOSIVE SYSTEMS N63-20225 20-24
ICHROMATS PRS-17054	N63-11683 04-16	SMALL SCALE SHOCK SENSITIVITY AND OUTPUT OF TRINITRO-1,3,5-TRIAZOCYCLOHEXANE/CALCIUM-STEARATE
LORIMETRIC PROBE SENS ROMAUTICAL ENG. REPT.		MIXTURES NOLTR-63-91 21/20/20/20/20/20/20/20/20/20/20/20/20/20/
IRING FABRICATING PROC	LANT INITIATION HAZARDS ESSES	NOTCH SENSITIVITY OF REFRACTORY METALS M63-29165 24-10
BL/Z-48 EMSITIVITY IN SAMPLED-	DATA HANDLING SYSTEMS	SHOCK SENSITIVITY CHARACTERISTICS OF LIQUID EXPLOSIVE SYSTEMS - HIGH & LOW VELOCITY
	N63-12358 06-09	DETONATIONS - 20 10 10 10 10 10 10 10 10 10 10 10 10 10
	ITH GASEOUS AND LIQUID SPACE FLIGHT CONDITIONS -	SENSOR SA BIOSENSOR PLASTICS, ISOTOPE SEPARATION, RADIOELEMENTS,
HIC-HENO-163	N63-13071 07-26	REACTOR FUELS HARE TO EDITE HELDANANS TELEFORECENT
PERATIONAL CHARACTERIS	STREET, STREET	HLH-1129 122 142 142 1 1 1 1 1 1 1 1 1 1 1 1 1 1
IGH ENERGY PROPELLANTS	N63-13605 08-26	DATA SENSORS AND INFORMATION ACQUISITION IN SPACE N63-10770 02-19
ENSITIVITY AND MODAL R ULTILOOP CONTROL SYSTE	ESPONSE FOR SINGLE-LOOP AND M N63-13638 08-20	MAGNETIC MEASURING SYSTEM ABL/8-22 N63-11048 03-1:
	R BANG-BANG CONTROL SYSTEMS	THE THE TATE OF THE TELEVISION
TH AND WITHOUT DAMPIN BMRI-1081-62	N63-13771 08-20	PLASTICS RESEARCH, RADIOACTIVE ELEMENTS, ISOTOPE SEPARATION & PURIFICATION, REACTOR FUELS, X-RAY SENSORS
	S ON SHOCK INITIATION OF	MLM-1138 STEERS ON AMERICA N63-11350 19 03-0
QUID TRINITROTOLUENE DLTR-62-159	N63-14487 10-26	VIBRATORY OUTPUT ANGULAR MOTION SENSORS
ENSITIZED BY VARIOUS MENOGENIC SKIN GRAFTS	AND NON-IRRADIATED MICE, EANS, TO ALLOGENIC AND	ESL-R-137 N63-12366 06-1
SHRDL-TR-628	N63-15068 11-16	ESD-TDR-63-189 N63-12453 06-29
	NTALUM, NIOBIUM, MOLYBDENUM ACT PROPERTIES, FRACTURE ATION N63-15094 11-18	HIGH TEMPERATURE SENSORS FOR MEASURING NUCLEAR REACTOR FUEL AND COOLANT SYSTEMS ANL-6636 N63-12935 07-1:
TON MACS DANCE BESTI LIT	ION AND SENSITIVITY OF	MISSILE ATTITUDE DETERMINATION USING MAGNETOMETER
MEGATRON MASS SPECTROM FCRL-62-953	ETER WOTTONTHO (ALTHUMPS)	RG-TR-62-5 WASHINGTON NO. 13230 07-1
	FRACTORY METALS - NIOBIUM.	FLUID AMPLIFIER FOR USE IN LOGIC CIRCUITS AND AS
UNGSTEN, TANTALUM, MOL ITANIUM ALLOYS	YBDENUM, AND MOLYBDENUM-	SENSOR OF LOW VELOCITY FLUID STREAMS AND LOW ACOUSTIC WAVES
APPROXIMATION FOR THE	A THE STATE OF THE	SOLAR POWER SUPPLY ORIENTATION SYSTEM
ONTROL & SURFACE COAT!	- EFFECTS OF ENVIRONMENTAL NG ON IMPACT DETONATION OF	N63-14147 - 09-0
OLIV CUMPUSITE PROPELL	ANTS IN CONTACT WITH METALS N63-16261 13-26	LOW-DENSITY FLUID DYNAMICS PRESSURE MEASUREMENT APPARATUS REVIEW N63-14394 10-2
DOT SENSITIVITY IN TIME FSWC-TOR-62-123	E DOMAIN - LINEAR SYSTEMS N63-16276 13-20	MULTIFUNCTION SPACE VEHICLE GUIDANCE SENSORS N63-14754 11-2
MPACT SENSITIVITY OF M IQUID OXYGEN AND MITRO		MULTIFUNCTION SENSORS FOR SPACE VEHICLE GUIDANCE AND NAVIGATION - STAR FIELD TRACKING N63-15916 13-2:
	BERLINE NEUTRON SURVEY	NUCLEAR REACTOR INSTRUMENTATION AND CONTROL,
	AS FUNCTION OF NEUTRON	SWITCHING CIRCUIT, AND PAGGE-TYPE TEMPERATUREITH SENSORS.
IQUID OXYGEN LUBRICANT	IMPACT SENSITIVITY	DISCREPANCIES WITH DELTA-P SENSORS FOR MONITORING LIQUID PROPELLANT SLOSHING DURING ROCKET FLIGHT
	ENSITIVITIES BY HOT SPOT	MTP-PEVE-P-62-6 M63-16673 14-2 MULTIFUNCTION SENSORS FOR SPACE VEHICLE NAVIGATIO
don't ma 21	HANISH AND SENSITIVITY	AND GUIDANCE M63-16826 14-2
EVELOPMENT SD-TOR-63-288	N63-18690 17-15	DIFFERENCE BETWEEN HISSILE LAUNCH TIRES AND SENSO SENSITIVITY TO SUNLIGHTED VACTIONS ORS MOTPHENESS

S

S

5

5

			0
	29 16-04	ESD-TDR-63-605	N63-21453 22-16
GUIDANCE SENSOR FOR HIGH PRECISION CONTRO NEEDED WHEN EXAMINING RADIATION FROM SELE STARS ATAA PAPER-63-211 N63-1821		CONSCIOUS TEMPERATURE PERCEP SENSATION ELICITED BY PERIPH WARM-SENSATION RECEPTORS CEN	ERAL RECEPTORS AND
BEHAVIOR OF ACTIVE SENSOR WHEN AFFECTED 8	Y LINEAR.	SEPARATION	THEFT SENSTREET
CENTRIFUGAL, AND GRAVITATIONAL ACCELERATI GRAVITY GRADIENT MEASUREMENTS	IONS -	SA BOUNDARY LAYER SEPARATION SA FLOW SEPARATION	AC THA RELIGION OTHERS
PA-TH-147-62 N63-1864	17-23	SA STAGE SEPARATION OF DESCRIPTION	THE REAL PROPERTY.
NUCLEAR RADIATION EFFECTS IN IMPACT DETECT TRIGGER CIRCUIT AND DIRECT CURRENT AMPLIF GA-4395 N63-2001	TER	CF FILTERING CF SPACING	
SPACECRAFT SENSORS FOR DETECTING RADIO AN SIGNALS - ANALYSIS OF REQUIREMENTS		HEAT TRANSFER IN REGIONS OF REATTACHED FLOWS NACA-RH-L57D258	
AIAA PAPER-63-348 N63-2047		HYDROGEN ISOTOPE SEPARATION	IN LOW TEMPERATURE
INFRARED HORIZON OF PLANET EARTH - DIFFER BETWEEN SURFACE, ATMOSPHERIC, & OUTER SPA SPECTRAL REGIONS - CHOOSING SPACECRAFT SE	CE	DISTILLATION APPARATUS DP-732	N63-14281 10-07
	3 20-12	SURVEY OF CLASSIC RESULTS AN THREE-DIMENSIONAL BOUNDARY L	RECENT RESEARCH ON
DESIGN AND MANUFACTURE OF LOW COST STABIL SENSING GYROSCOPE	TTY.	DK-532526	M63-14614 10-11
RG-TR-63-22 N63-2116	0 21-15	AERODYNAMIC AND STRUCTURAL DE	ESIGN OF ROCKET NOZZLE
PROBABILITY CHARACTERISTICS OF SENSOR OUT REDUCE REDUNDANT INFORMATION TRANSHISSION	Bart Sale	OPERABLE UNDER SEPARATED FLO MODE VIBRATIONS OF CONICAL N NASA-CR-50692	N63-19267 IR-M
N63-2140	5 22-20	FLEXIBLE LINEAR-SHAPED CHARG	THE R. LEWIS CO., LANSING, MICH. LAN
CONTINUOUS IONIZATION SENSOR TO STUDY DET AND PRE-DETONATION PHENOMENA IN SOLID PRO AND EXPLOSIVES		SPACE VEHICLE STAGE SEPARATION SSO-TOR-63-183-/III/	N63-23370 24-0
NOLTR-63-136 N63-2218	6 23-26	SEPARATOR CF FILTER	0-809-10-141921128-6
MULTISENSOR SEISMIC ARRAY TECHNIQUE AFCRL-63-894 N63-2280	2 23-12	SEQUENCER DEVELOPING TASK-SEQUENCER IN	FI ICHT STHIRATORS
DYNAMIC RESPONSE OF RISING AND FALLING BA WIND SENSORS FOR ESTIMATES OF WIND LOADS		AMRL-TDR-63-17	N63-15367 12-1
VEHICLES NASA-TN-0-1821 N63-2336 ENSORY DEPRIVATION	2 24-30	SEQUENTIAL CONTROL HUMAN BEHAVIOR - VARIABLES CO DIFFICULTY OF SEQUENTIAL DEC ARRL-TDR-63-58	
CF CONFINENENT	TON ON		THE NOTATION OF WESTERN
EFFECTS OF SENSORY DEPRIVATION AND ISOLAT HUMAN BEHAVIOR N63-1145		SYNCHRONOUS & ASYNCHRONOUS SI CIRCUITS PIBMRI-1090-62	N63-21383 22-0
SENSORY AND PERCEPTUAL SENSE PROBLEMS OF SPACE FLIGHT - VISUAL PERCEPTION DEPRIVAT N63-1924	TON	LIMITING LAW FOR RELIABILITY FTD-TT-63-470/16264	A CONTRACT SHOWING AND ASSESSED.
RELATIONSHIPS BETWEEN HUMAN ABILITY TO EN		SEQUENTIAL DETECTION	THE PERMIT
PAIN & PERSONALITY, & SENSORY DEPRIVATION NASA-TN-D-2113 N63-2089		SEQUENTIAL DETECTION IN COMMI SHORT TRANSMISSION TIMES	or eventured with
ENSORY STINULATION	n arrivers	PIBMRI-1128-63	THE RESERVE THE RESERVE THE PARTY OF THE PAR
AROUSAL AND ITS EFFECTS ON HUMAN VESTIBUL NYSTAGMUS INDUCED BY CALORIC IRRIGATION A ANGULAR ACCELERATIONS	ND	SEQUENTIAL DETECTION WITH APPRADAR RM-3757-PR	N63-18976 18-0
CARI-62-17 N63-1052	4 01-16	BIASED SQUARE-LAW SEQUENTIAL	
ABSOLUTE IDENTIFICATION OF CUTANEOUS STIM VARYING IN BOTH INTENSITY LEVEL AND OURAT CARI-62-16 N63-1224	ION	RADAR SYSTEMS - UNRESTRICTED RM-3759-PR	
CUMULATIVE AUDITORY EFFECT RESULTING FROM EXPOSURE TO INTENSE ACOUSTICAL STIMULATION	MULTIPLE	BINARY SEQUENTIAL DETECTION (RADC-TDR-63-179	DF SIGNALS IN NOISE N63-21227 21-0
DEAFENING EFFECTS OF NOISE ON CATS AMRL-TDR-62-99/1/ N63-1628		CORRELATION PROPERTIES OF CYL AUTOCORRELATION FOR CYCLIC-S FUNCTION COMBINED SEQUENCES	EQUENCE CODE & BOOLES
CUMULATIVE AUDITORY EFFECTS OF HULTIPLE E		NASA-CR-51586	N63-23043 24-2
TO ACOUSTIC STIMULATION - HISTOLOGICAL EF- INTENSE SOUND ON INNER EAR AMRL-TDR-62-99/11/ N63-1640		SEQUENTIAL MACHINE SECONDARY STATE ASSIGNMENT F	DR SEQUENTIAL MACHINE
PERCEPSION OF HOTION, EQUILIBRIUM, AND OR	LENTATION	PIBHRI-1174-63	N63-19504 19-0
HINDER THE CONDITTIONS OF DESCRIPTIONS		SERGEANT MISSILE RELIABILITY OF SERGEANT MISS	ILE ASSEMBLIES -
UNDER THE CONDITIONS OF WEIGHTLESSNESS N63-1894	10-10	APPLICATION OF TEST-TO-EATING	RE PROCRAM
N63-1894 SENSOR OUTPUT DISPLAY DESIGN - MILITARY	3034-318	APPLICATION OF TEST-TO-FAILU	RE PROGRAM N63-17273 15-3
N63-1894 SEMSOR OUTPUT DISPLAY DESIGN - MILITARY TECHNOLOGY - VISUAL PERCEPTION PROBLEMS	3034-318	LINE OF SIGHT ERROR ANALYSIS TRAJECTORIES USING MK. 3C VE	N63-17273 15-3 FOR PAIRED

OPTICAL PICKOFF FOR SERVONECHANISM USED ON SATELLIYE ALTITUDE CONTROL SYSTEM RAE-TH-SPACE-17 N63-21162 21-06

2-16 06.0 2-16

-02

-07 M -11

-02

-06

-10

-14

-09 MS -06

-08

10

88 AN 23

23

33

22

SMIES COMP. NETH WAS SCIENCED AND SOME REPORT AS THE SERVICE OF THE SMITH AND SMITH AN	PHOTOSERVOSYSTEM FOR TRAINING TELESCOPES FTD-TT-62-1520/16264 M63-23739 24-09
S BOWEN DECARBOMATION SERIES S COSINE SERIES S FOURIER-BESSEL SERIES S FOURIER SERIES FROMEMIUS SERIES	SERVOSYSTEMS WITH SPHERICAL-COORDINATE CONVERTERS FOR OBSERVATORY TELESCOPE AND DOME MOVEMENTS FTD-TT-62-1194/16264 N63-23767 24-09
S LEGENORE PUNCTION SERIES S POWER SERIES S TIME SERIES S TIME SERIES S TIME SERIES S TIME SERIES	SESQUIDXIDE ELECTRIC AND MAGNETIC PROPERTIES OF VANADIUM SESQUIDXIDE AND RELATED SESQUIDXIDES N63-11311 03-25
CHANGE OF ADRENALIN, ACETYLCHOLINE, HISTAMINE, AND SEROTOMIN IN RATS SUBJECTED TO RADIAL ACCELERATION JPRS-16956 04-16	GALLIUM AND SCANDIUM SESQUIDXIDES - THERMODYNAMIC DATA BM-R1-6198 N63-13313 07-23 DIELECTRIC CONSTANT OF CHROMIUM SESQUIDXIDE
SERUM OF PROTEIN " THEMMOATTARE REVAL SANA THE LUMBOT	CAYSTALS M63-17147 15-25
CF PROTEIN DETERMINATION OF SERUM BILIRUBIN LF-3 N63-10547 01-16	HIGH TEMPERATURE HEAT CONTENTS AND ENTROPIES OF SESQUIOXIDES OF LUTETIUM, DYSPROSIUM, AND CERTUR DM-RI-6248 N63-17459 15-07
HUMAN SERUM LIPID LEVEL VERSUS AGE - CHOLESTEROL SAM-TDR-62-142 N63-13644 08-16	LOW TEMPERATURE HEAT CAPACITIES AND ENTROPIES OF
ELECTROPHORETIC EXAMINATION OF PARTIALLY DENATURED SERUM PROTEIN N63-18955 18-16	SCANDIUM AND CERIUM SESQUIOXIDES - 50 TO 298-DEG K BN-RI-8245 N63-17690 16-23
SERVO ANALYSIS OF INERTIAL PLATFORM	HEATS AMD FREE ENERGIES OF FORMATION OF ANTIMONY SESQUICKIDE AND TETROXIDE BM-R1-5972 N63-17889 16-07
RG-TR-63-3 N63-20790 21-03	CRITICAL PREQUENCIES OF STEPPED SHAPTS - THE TEX
SERVO LOOP ANALOG SIMULATION OF INERTIAL REFERENCE SERVO LOOP WITH DIGITAL GYRO PICKOFF RG-TR-63-7 N63-13155 07-22	EFFECT OF ADDITIVES AND CURE ON COMPRESSION SET, CROSSLINKING, AND CHAIN SCISSION IN IRRADIATED RUBBER VULCAMIZATE USNROL-TR-547 H63-12100 05-19
SERVOAMPLIFIER FEEDBACK SERVOAMPLIFIER - MICROELECTRONICS	SET OF MATRICES FOR TESTING COMPUTER PROGRAM
N63-17371 15-09	COMPRESSION SET OF ELASTONERS AT ELEVATED
ANALOGOUS SERVOAMPLIFIER FOR ANALOG COMPUTERS N63-19449 19-09	TEMPERATURES RIA-63-798 13-19
SERVOCONTROL HOT WATER ROCKET - EXHAUST NOZZLES, AIR INTAKE, SERVOCONTROLS, TANKS N63-14436 10-27	SET THEORY LIFTING PROPERTIES AND DIRECT SUMS IN SET THEORY MRC-366 N63-11455 03-20
MYDELECTRIC CONTROL OF SERVO-BOOST SYSTEM TO POSITION OPERATOR HAND - MAN MACHINE SYSTEM ASD-TOR-63-70 N63-18806 18-16	LIAPUNOV METHOD EXTENDED TO SOME DIFFERENTIAL EQUATIONS IN BANACH SPACES - NORMS, EXISTENCE AND STABILITY, AND BOUNDEDNESS OF A SET
VARIOUS CALCULATIONS OF FLUTTER FOR AILERONS WITH	HRC-315 N63-14500 10-20
HYDRAULIG SERVO-CONTROL MECHANISMS N63-22268 23-02	EXTENSION PROBLEM FOR POSITIVE-DEFINITE FUNCTIONS ON GROUPS OF LATTICE POINTS AND ON EUCLIDEAN SPACE MRC-317 No3-14510 10-20
SERVOHECHANISM CF ACTUATOR SELF-OSCILLATIONS OF A NEUTRAL AIRCRAFT WITH AN AUTOPILOT HAVING A PULSE-ACTION SERVOHECHANISM	COVERINGS - SET THEORY, BOOLEAN ALGEBRA AND MATRIX ANALYSIS SOLUTIONS AFCRL-69-130 M63-18171 16-20
N63-10299 01-22 MAN AMPLIFIER CONCEPT - MAN MACHINE SYSTEMS, BODY KINEMATICS, SERVOMECHANISMS	MATHEMATICAL ANALYSIS OF DIFFERENTIAL EQUATIONS USING PERIODIC EQUATIONS AND SET THEORY NASA-CR-90715 M63-19029 18-20
CAL-VO-1616-V-1 N63-10944 02-16	16 (-19 mas 3HZ) #4 [T
SERVO PROPERTIES OF THE GASTROCHEMIUS MUSCLE OF THE CAT	SET THEORY IN ALGORITHMIC LANGUAGES - COMPUTER LANGUAGE SDC-TM-738-003-00 N63-19508 19-20
AMRL-TDR-62-108 M63-11787 04-16	SETTLER CARI-COM C-1005 CAROUNTS
OPTIMUM LOOP-GAIN-FREQUENCY FUNCTION FOR SECOND OR THIRD ORDER LINEAR SERVOSYSTEM EDC-1-62-10 N63-12608 06-09	MECHANISM OF LIQUID-LIQUID SETTLING UCRL-10625 N63-14082 09-23
INVESTIGATION OF DIGITAL POSITION SERVOMECHANISM BASED ON MINIMAL LOGIC CRITERION EDC-1-62-12 N63-12609 06-09	SEMAGE MASTE TREATMENT PROTOZOA - MORPHOLOGY AND TAXONONY OF FLAGELLATA N63-11933 04-16
PRESTOR TORE FOR LOCAL SURPACE SHEARING KINKSE O	SETTANTIFE BE PETTARETH BRENE JALKA RELEDITION
SERVONECHANISMS - SAMPLED DATA SYSTEM STIMULATION AND VERIFICATION RG-TR-63-5 N63-12957 07-09	CF POSITION INDICATOR SIGNTING PROBLEMS ASSOCIATED WITH SEXTANT TYPE MEASUREMENT OF STAR POSITION FOR SPACE NAVIGATION
AUTOMATIC CONTROL OF TRANSFER OPERATION OF PHOTO- METRIC SERVOHECHANISMS WHEN BRIGHTNESS OF TRACKED	MASA-TH-D-1653 A THE SHEET OF M63-14444 10-22 SPERICS - 22448 JIMAGRO XQUAR TO YTIGHTRAJEGGELY
OBJECTS VARIES N63-14015 09-09	CONFERENCE ON SFERICS MEASUREMENTS FROM SATELLITES N63-15516 12-32

SFERIC ACTIVITY AND WEATHER CONDITIONS NSSP-13 NSSP-13

TCC

CF

N63-21194

OPTICAL BIREFRINGENCE ASSOCIATED WITH PROPAGATION
OF A PLAME SHEAR WAVE IN A VISCOELASTIC MEDIUM
AROD-2231-8
N63-19044 18-11 SEVERE MEATHER PROJECT - OBSERVATIONS BY RADAR, RADIOSONDE, SFERICS, AIRCRAFT AND TIRDS SATELLITE - ROUGH RIDER PROJECT M63-18277 17-21 NSSP-14 CORRELATING PERCENT SHEAR-LIP TO RELATIVE PLASTIC ZONE SIZE IN BRITTLE FRACTURE - THEORY AND SHADOW LUNAR TOPOGRAPHY - LUNAR SHADOW, LUNAR CRATER, MICRODENSITOMETER MEASUREMENT JPL-TR-32-112 N63-14855 STRESS RELAXATION OF MONODISPERSE AND POLYDISPERSE POLYSTYRENE - SHEAR VISCOSITY AND SHEAR ELASTICITY ONR-TR-RLT-63 SHADOWGRAPH OPTICAL INSTRUMENT FOR INTERFEROMETRY, DEFLECTION MAPPING, SHADOWGRAPHY AND SCHLIEREN PHOTOGRAPHY LAMINAR SEPARATED BASE FLOW BEHIND OBJECTS FLYING AT HYPERSONIC SPEEDS - FINITE BOUNDARY AND SHEAR LAYER PROFILE DATA ARL-63-45 HYPERVELOCITY FLIGHT OF COPPER-PLATED-SPHERES IN LOW PRESSURE AIR - SHADOWGRAPHS AND RADIATION N63-19240 18-10 TURBULENT SHEAR LAYER REATTACHMENT PROBLEM WITH DRL-TR-62-214, VOL. I EMPHASIS ON BASE PRESSURE AE-175, ISSUE 2 SHAFT N63-22466 MAGNETIC AND ELECTRIC FORCES FOR ROTATING SHAFT SHEAR LAYER DISTORTION DUE TO SHARP TURN AT SEPARATION POINT - EFFECT ON HYPERSONIC LAMINAR BASE FLOW PROPERTIES ENI-4454-111-63U N63-16306 13-17 N63-22788 23-11 LIQUID COOLANT LUBRICANTS FOR HIGH TEMPERATURE ROTATING SHAFTS M63-17855 16-17 APPARATUS FOR MEASURING STRESS RELAXATION MODULUS IN SHEAR OF VISCOELASTIC MATERIALS BRL-MEMO-1498 N63-23697 24-3 IN-FLIGHT HEASUREMENT OF STEADY AND OSCILLATORY HELICOPTER ROTOR SHAFT LOADS N63-21826 22-04 CRITICAL EREQUENCIES OF STEPPED SHAFTS - TWO GROOVED PLATE VISCOUS SHEAR COMPRESSOR UNDER FINITE DIFFERENCE METHODS SUITED FOR DIGITAL POLYTROPIC FLOW CONDITIONS COMPUTATION HT1-62TR21 N63-23753 LAMS-2954 N63-22909 23-20 AR FLOW
ATMOSPHERIC MECHANICS - PRECIPITATION AND MOISTURE
FLUX, LARGE-SCALE SPECTRA, MEAN WIND STABILITY,
SHEAR FLOW, AND QUASI-LAGRANGIAN FLOW COORDINATES
AFCRL-63-209 N63-13286 07-12 SHALLOW SHELL EQUATION SHALLOW SHELL THEORY APPLIED TO EQUILIBRIUM AND AROD-2028-14 N63-13540 SHAPE STABILITY OF HETEROGENEOUS SHEAR LAYER IN MAGNETIC FIELD AFTERBODY SHAPE N63-13929 LINE SHAPE THEORY OF CYCLONE MAVES IN ATMOSPHERIC MODELS SYMMETRIC MAVE APPROACH TO INSTABILITY OF STRATIFIED SHEAR FLOW HODE SHAPE SHEAR SA WIND SHEAR AFCRL-63-238 12-11 CF FORCE CF MECHANICAL PROPERTY FREE MOLECULAR HYPERSONIC FLOW AT LEADING EDGE OF FLAT PLATE - PRESSURE, SHEAR DISTRIBUTION AND HEAT CF STRESS MAGNETOHYDRODYNAMIC SHEAR HEATING AT INTERFACE OF TRANSFER RH-2553-PR N63-17531 TWO ROTATING PLASMAS N63-10517 NUMERICAL APPROXIMATION OF INTERACTION FOR HIGH STRENGTH OF METALLIC WHISKERS, FRACTURE INVISCID SHEAR FLOW N63-18081 THEORY JPRS-16567 N63-10977 02-18 MERGING OF TWO SHEAR FLOWS WITH DIFFERENT FLUID PROPERTIES COMPRESSIVE AND SHEAR PROPERTIES OF CORRUGATED ALUMINUM FOIL SANDWICH CORES N63-22566 23-11 FP1-1889 N63-11412 03-33 TENSION, COMPRESSION AND SHEAR EVALUATION IN THE INTERLAMINAR PLANE OF FIVE PLASTIC LAMINATES PLASTIC DEFORMATION OF THIN SILVER BRAZED JOINTS IN SHEAR ASRL-TR-94-3 N63-13298 07-33 NECHANICAL PROPERTIES OF HIGHLY FILLED ELASTOMERS - INFLUENCE OF PARTICLE SIZE AND FILLER CONTENT ON TENSILE STRENGTH AND SHEAR MODULI ISOTROPIC ELASTIC MODULUS OF MAGNESIUM OXIDE AT THEORETICAL DENSITY AROD-2891-5 N63-13437 08-33 ROOM-TEMPERATURE SHEAR AND COMPRESSION TESTS OF STIFFENED PANELS WITH INTEGRAL OR ATTACHED COOLING MECHANICAL AND BIREFRINGENT PROPERTIES OF VISCOELASTIC MATERIALS UNDER SINUSOIDAL SHEARING CIRCUITS STRESS NASA-TN-D-1499 N63-19764 AROD-2231-9 CONFORMAL TRANSFORMATION METHOD APPLIED TO NATURAL FREQUENCY OF AXIAL SHEAR VIBRATION OF PRISMATIC PRESTON TUBE FOR LOCAL SURFACE SHEARING STRESS OF N63-20809 21-15 N63-15060 11-19 FRICTION LAYER BARS OPTIMIZATION OF MANGAMESE CONTENT OF BRAZING ALLO TO INCREASE LAP SHEAR STRENGTH, CORROSION RESISTANCE, & BRAZEABILITY NOTCH AND SHEAR PROPERTIES OF HEAT TREATED STEEL WAL-TR-766-5/2 N63-16183 13-18 VISCOELASTICITY OF GALEX ORGANIC GLASS - SHEAR COMPLIANCE TEST RESULTS - TRANSITION TEMPERATURE ONR-TR-RLT-59 N63-16553 14-21-18 NA3-20957 LAP SHEAR STRENGTH OF ROLL SEAN WELDED TITANIUM STRIOL

N63-17836 16-17

4062

HIGH TEMPERATURE SHEAR STABILITY OF POTENTIAL

HYDRAULIC FLUIDS

ion io-11 ific io-31 ease city o-19

2-11 H 3-11 A 3-11 LUS

4-33 TUNE TES 7-12

9-24

1-16

Section Comme	
SHEAR & TENSILE STRESSES IN CORNER NEAR CUT-OUTS COMPARED WITH PANELS OF RIVETED, SPOT-MELDED.	SHEET AT VERY HIGH TEMPERATURES NASA-TN-0-1310 N63-12926 07-18
SONDED CONSTRUCTION N63-22064 22-33	MOLYBDENUM AND TITANTUM SHEET ROLLING N63-13274 07-18
THREE-DIMENSIONAL TURBULENT BOUNDARY LAYERS - CALCULATION OF VELOCITY PROFILES AND SHEAR STRESS CHEONERTS	TUNGSTEN & TUNGSTEN ALLOY SHEET ROLLING PROGRAM N63-14854 11-17
The state of the s	MACHINING OF REFRACTORY MATERIALS, HIGH
SHEATH SA PLASMA SHEATH ELECTRON DISPLACEMENT CAUSING ION SHEATH AROUND	TEMPERATURE ALLOYS, HIGH STRENGTH STEEL, AND TITANIUM AND MOLYBDENUM SHEETS ASD-TR-T-5322/1X/ N63-14886 11-18
ANTENNA IN IONOSPHERE NASA-TN-D-1746 N63-16163 13-12	TUNGSTEN SHEET ROLLING PROGRAM - OCT 1961 TO JAN
HEAT TRANSFER, FLOW, AND ELECTRICAL PHENOMENA IN	1962 ASC-TR-7-827/111/ N63-16964 14-18
GAS SHEATH ON COOLED ANODES N63-23472 24-24	TUNGSTEN SHEET ROLLING PROGRAM - JAN 1962 TO APR
CF FOLL	1962 ASC-TR-7-827/IV/ N63-16965 14-18
OF PLATE	TUNGSTEN SHEET ROLLING PROGRAM - APR 1962 TO SEPT
MAGNETIC FIELDS IN DIAGNOSTIC METHODS FOR IONIZED GASES - PROBING PLASMA SHEET DURING REENTRY 10R-169/3153/TR-1 N63-12104 05-15	1962 ASC-TR-7-827/V/ N63-16966 14-18
Hally controlled to a most the second association.	TUNGSTEN SHEET ROLLING PROGRAM - SEPT 1962 TO JAN
PLASMA CURRENT SHEET DYNAMICS - THERMONUCLEAR FUSION - SPACE PROPULSION	1963 ASC-TR-7-827/VI/ N63-16967 14-18
A-2 N63-12961 07-24	TUNGSTEN SHEET ROLLING PROGRAM - FEB 1963 TO APR
TENSILE PROPERTIES AND SHEET-BENDING FATIGUE PROPERTIES OF REFRACTORY METALS	1963 ASC-TR-7-827/V11/ N63-16968 14-18
NASA-TN-D-1592 N63-13183 07-18	TODGET BRIGG LYBER-15
STRENGTH OF FILAMENTARY SHEET WITH BROKEN FIBER NASA-TN-0-1609 N63-13789 09-33	CRACK PROPAGATION IN HIGH STRENGTH SHEET METAL ALLOYS MRG-286 NG-287 NG3-17721 16-33
TRANSITION THEORY OF ELASTIC-PLASTIC DEFORMATION	MOLYBDENUM SHEET ROLLING PROGRAM
APPLIED TO BENDING OF RECTANGULAR SHEET NGS-14454 10-33	M63-17747 16-18
LONG-TIME CREEP EFFECT ON MECHANICAL PROPERTIES OF	FATIGUE CRACK SENSITIVITY AS FUNCTION OF FATIGUE LOAD AND LOADING METHOD IN NOTCHED STEEL SHEET
STRUCTURAL SHEET MATERIALS UNDER STRESS N63-14548 10-33	SPECIMENS - THE THE PROPERTY - THE PROPERTY - 18-33
LONG-TIME CREEP EFFECT ON MECHANICAL PROPERTIES OF STRUCTURAL SHEET MATERIALS NG3-14549 10-33	HEAT TREATMENT VARIABLES AFFECTING FRACTURE TOUGHNESS IN HIGH STRENGTH SHEET ALLOYS ASD-TDR-62-868 N83-19198 18-18
VORTEX SHEET STABILITY IN PERTURBATION OF THREE-	SHEET ROLLING OF NIOBIUM ALLOYS
DIMENSIONAL COMPRESSIBLE FLUID FLOW MASA-CR-50032 N63-17201 15-20	N63-19287 18-18
CURRENT SHEET SPEED IN MAGNETIC ANNULAR SHOCK TUBE AVCO-EVERETT RES. REPT152 N63-17463 15-11	LONG-TIME CREEP DATA ON STRUCTURAL SHEEF METALS SUCH AS AM350 STAINLESS STEEL & TI-BAL-LMO-IV ALLOY N63-19433 . 19-33
EFFECT OF INTERNAL CRACKS ON DISTRIBUTION OF STRESS IN THIN ELASTIC SHEETS AND CYLINDERS N63-18218 17-33	STABLE BETA TITANIUM SHEET ALLOY DEVELOPMENT WAL-TR-405.2/1 N63-19624 19-18
STRESS DISTRIBUTION NEAR CRACK IN TWO-DIMENSIONAL	DESTRUCTIVE TESTING OF TUNGSTEN ALLOY SHEET METAL ASC-TR-7-827/VIII/ N63-19893 19-17
CURRENT SHEATH DYNAMICS AND MAGNETOSONIC	PROTECTIVE COATINGS FOR SHEET HETALS IN SUPERSONIC TRANSPORT AIRCRAFT
OSCILLATIONS IN MAGNETOPLASMAS NASA-CR-50854 N63-20250 20-24	NASA-CR-50824 N63-19967 19-17
SHEET METAL	EFFECT OF THICKNESS AND TEMPERING TEMPERATURE ON FRACTURE TOUGHNESS OF STEEL SHEET
SONIC LOADING RESULTS OF ALUMINUM SHEET	N63-20003 19-18
ASD-TDR-62-501 N63-10663 02-33 MOLYBDENUM SHEET ROLLING PROGRAM	PROPAGATION METHODS N63-20005 19-18
N63-10693 02-17	PLASTIC ANISOTROPY OF MAGNESIUM ALLOY SHEETS - ROLLING AND TRANSVERSE DIRECTION TENSILE STRENGTH
AN EVALUATION OF PROTECTIVE COATINGS ON MIGBIUM ALLOY SNEET MATERIAL N63-10964 02-18	WAL-TR-834.12/2-2 N63-20026 19-18
MICROSTRUCTURAL CHANGES PRODUCED IN RENE 41 ALLOY	FRACTURE RESISTANCE OF NOTCHED METAL SHEETS - VARYING DIMENSION EFFECT ON CRACK PROPAGATION
HEAT SHINGLES ON MERCURY CAPSULE N63-12056 05-18	17 THE REPORT OF VICTORIA 13 THE MA3-20084 11 20-18
HOLYBDENUM- & TUNGSTEN-BASE ALLOY SHEET MATERIALS	CRACK PROPAGATION IN THIN SHEET METAL MATERIALS 10-18
N63-12096 05-18 IMPROVED HOLYBDENUM SHEET BY POWDER METALLURGY N63-12730 06-18	TANTALUM ALLOY SHEET - PILOT PRODUCTION AND EVALUATION MANL-PR-N-005 M63-20125 20-18
EXAMINATION OF MECHANICAL DROPERTIES OF TUNCSTEN	MOLYBDENUM SHEET ROLLING - INGOT. EXTRUDED STOCK.

EXAMINATION OF MECHANICAL PROPERTIES OF TUNGSTEN

MOLYBDENUM SHEET ROLLING - INGOT, EXTRUDED STOCK,

FORGING TESTS N63-20331 20-18	EFFECT OF CURVATURE ON THE STRESS CONCENTRATIONS AROUND HOLES IN SHELLS N63-11319 03-33
NIOBIUM ALLOY SHEET PROCESSING N63-20341 20-18	VARIATIONAL METHODS IN PROBLEMS OF VIBRATION OF
WELDABILITY STUDIES OF THREE COMMERCIAL NIOBIUM- BASE ALLOYS - REFRACTORY METALS SHEET ROLLING	A10-62-203
PROGRAM DMIC-MEMO-169 N63-20426 20-18	VIBRATIONS - FORMULAS FOR MODAL DENSITY, RESONANT FREQUENCIES & POINT IMPEDANCE OF CYLINDRICAL SHELLS N63-11583 04-33
COLD ROLLING AND AGING EFFECTS ON SHARP-NOTCH PROPERTIES OF BETA TITANIUM SHEET ALLOY N63-20507 20-18	LIQUID-FILLED, IMPULSIVELY STARTED, SPINNING
ALKALI-SILICATE DOPED ALLOYS AS BASE MATERIALS FOR TUNGSTEN-BASE SHEET ALLOYS N63-20620 20-18	STRESS STATE IN TORICONICAL STRUCTURE OF CONSTANT
SHEET ALLOY SCREENING PROGRAM FOR MACH 3 TRANSPORT	MALL THICKNESS NASA-TN-D-1565 N63-12479 Q6-33
HIGH TEMPERATURE AND STRENGTH REFRACTORY ALLOY SHEET MATERIAL OF TITANIUM, NIOBIUM, MOLYBDENUM & ZIRCONIUM METALS N63-20971 21-18	PHOTOPROTONS EMITTED FROM LIGHT NUCLEI AND NUCLEM SHELL STRUCTURE NUP-62-2 N63-12743 Ob-23
REAGING OF INCONEL-X SHEET MATERIAL AFTER SEAM	CIRCULAR CYLINDRICAL SHELL UNDER SPACE BAND LOADS BY ELASTICITY AND SHELL THEORIES PIBAL-658 N63-13430 08-33
A065 N63-21198 21-18	STRESS ANALYSIS OF SANDHICH PLATES AND SHELLS -
BASIC SHEET STRENGTH OF ROLL-SEAM WELDED TITANIUM AND FAILURE DISTANT FROM HEATED WELD AREA A063 22-18	ATTACHMENTS, DESIGN APPLICATION, FABRICATION, MECHANICAL PROPERTIES, TESTING - BIBLIOGRAPHY SM-42883 08-33
STATIC AND DYNAMIC MECHANICAL PROPERTIES OF BERYLLIUM SHEET A068 N63-21876 22-18	THERMAL AND PRESSURE-INDUCED STRESSES IN THICK, BLUNT-MOSED SHELLS OF REVOLUTION OF ONE OR TWO LAYERS OF CONSTANT THICKNESS
DEEP DRAWING OF THICK HOLYBDENUM SHEET	GASL-TR-284 M63-13701 D8-33
N63-22260 23-18 CRITICAL CRACK LENGTH OF HIGH STRENGTH FLAT SHEETS	STUDY OF THE STATE OF STRESS IN CLOSED TOROIDAL SHELL WITH APPLICATION OF APPLIED THEORY OF ELASTICITY
AND CYLINDRICAL PRESSURE VESSELS DMIC-HEMO-174 N63-22818 23-18	COA-137 N63-14093 09-33 BOUNDARY LAYER THEORY FOR UNSYMMETRIC DEFORMATIONS
USSR INDUSTRIAL DEVELOPMENT - METALWORKING EQUIPMENT, SHEET METAL STAMPING BY EXPLOSION JPSS-21459 M63-23139 24-18	OF CIRCULAR CYLINDRICAL ELASTIC SHELLS MRC-318 N63-14511 10-33
TANTALUM ALLOY SHEET - PROCESSING AND EVALUATION OF MECHANICAL PROPERTIES MANUEL PROPERTIES MANUEL PROPERTIES MANUEL PROPERTIES MANUEL PROPERTIES	CATASTROPHIC FRACTURE OF LIQUID-FILLED TANKS UNDER IMPACT BY HIGH-VELOCITY PARTICLES NASA-TN-0-1537 N63-16880 14-33
WAIL-14-1000 1003-23346 24-10	NATURAL MODE FREQUENCIES AND SLOSH FORCES FROM LIQUID SLOSHING IN TOROIDAL TANKS
SA CONICAL SHELL SA CYLINORICAL SHELL	MASA-TH-D-1709 M63-16988 15-23 DETERMINATION OF FREE, TOROIDAL AND SPHEROIDAL
SA SPHERICAL SHELL SA THIN MALLED SHELL APPLICATION OF VARIATIONAL MOTION EQUATIONS TO THE NONLINEAR VIBRATION ANALYSIS OF HOMOGENEOUS AND	OSCILLATIONS OF GRAVITATING SOLID SPHERE - MATHEMATICAL ANALYSIS ASSUMING RADIAL SYMMETRY NASA-CR-50654 N63-18419 17-12
LAYERED PLATES AND SHELLS AFDSR-TN-2256 N63-10417 01-33	EFFECT OF AXIALLY SYMMETRICAL INITIAL IMPERFECTION ON BUCKLING LOAD OF CIRCULAR CYLINDRICAL SHELL UNDER AXIAL COMPRESSION LOADING
LARGE SHELL STRUCTURE DESIGN PROBLEMS - SANDWICH CONSTRUCTION NOSE CONES N63-10811 02-34	NASA-TN-D-2005 N63-18668 17-33
YIELD COLLAPSE OF STIFFENED CIRCULAR CYLINDRICAL SHELLS WITH A GIVEN DUT-OF-ROUNDNESS	VIBRATIONS OF ORTHOTROPIC THICK CYLINDRICAL SHELLS R-5273 N63-19097 18-33
N63-10826 02-33 BUCKLING OF LAYERED ORTHOTROPIC AND SANDWICH	VIBRATIONS OF THIN SHELLS - AMNOTATED BIBLIOGRAPHY SB-63-43 N63-19776 19-33
CYLINDRICAL SHELLS IN AXIAL COMPRESSION N63-10932 02-33	BUCKLING STABILITY OF TORISPHERICAL SHELLS UNDER UNIFORM INTERNAL PRESSURE AMRA-TR-63-06 N63-20376 20-33
BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SUBJECT TO AXIAL IMPACT N63-10835 02-33	LONGITUDINAL INPACT OF SEMI-INFINITE CIRCULAR
STABILITY OF THIN WALLED CIRCULAR CONICAL SHELLS OF CONSTANT THICKNESS N63-10836 02-33	CU-3-63-ONR-266/34/-CE N63-23133 24-33
MONLINEAR SHALLOW SHELL ANALYSIS BY THE MATRIX FORCE METHOD 02-33	VIBRATION CHARACTERISTICS OF PRESSURIZED THIM-MALLED CIRCULAR CYLINDERS PARTLY FILLED WITH MATER NASA-TR-R-145 N63-23358 24-11
THERMOSTRUCTURAL ANALYSIS HANDBOOK - THERMAL STRESSES - STRUCTURAL SHELLS	PHOTOELASTIC ANALYSIS OF REINFORCED OPENINGS IN
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CYLINDRICAL, SPHERICAL, AND TORO-SPHERICAL SHELLS SUBJECTED TO INTERNAL PRESSURE N63-23497 24-23
STRUCTURES, TOROIDAL SHELLS NASA-TN-0-1690 NASA-TN-0-1690 NASA-TN-0-1690	ECHTRATION OF RECHARICAL PROPERTIES OF TORESTER

I CMS 03-33 OF

03-20

DNANT

04-11

TANT

06-33

CLEAR

DADS

08-33

08-33

K. 08-33

AL.

09-33 FIONS

10-33

4-33

CIG

5-23

7-12

TION

7-33

ELLS 8-33 APHT 9-33

ER 9-33

-33

TH

-11 LS

-23

AXISYMPRETAL SHELLS MORE AREAL AND AND INSTORE CONTRAINED SHELLS SHELLS STABILITY OF PRESCUE SHELLS SHELLS SHELLS SHELLS SHELL STABILITY DEPOCRACE MORE AND	SHELL STABILITY CF BUCKLING	WHEN LANGE O	ATARDS TO	BUCKLING PRESSURE SIMILARITY OF CONICAL AND CYLINDRICAL SHELLS	02-33
MEE PAPER-34 MAS-10030 01-34 MORE ACTION OF CONCENTRATED LOOS AND UNIFORM PRESSURE OF MICHIGAN PROPERTY OF SPHERICAL SHELLS SPHERICAL MODE OF THREE-AXIS STABLIZED PARTPORM AND-10035 01-22 MASTATIFF-85 MAS-10035 01-23 MASA-TITF-85 MAS-10036 02-23 MASA-TITF-85 MAS-10036 02-24 MASA-TITF-85 MAS-10030 02-24 MASA-TITT-85 MAS-10030 02-23 MASA-TITT-85 MAS-10030 0	CONICAL SHELLS UNDER AXIAL LOAD	AND INSIDE	COAT	AND A MINE WHAT WAS A PARTY OF THE PARTY OF	
DEFORMATIONS AND STABLLITY OF SHREETCAL SHELLS MORR ACTION OF CONCENTRATED LODGS AND UNIFORM ASTMERTAL QUALIFIES OF SHALDS STABLES MASTMERTAL AND CONCENTRATES AND STABLES MASTMERTAL AND CONCENTRATES AND STABLES MASTMERTAL AND CONCENTRATES AND STABLES MASTMERT CONCENTRATES AND STABLES MASTMERT CONCENTRATES OF SHREETCAL SHELLS MASTMERT CONCENTRATES OF SHREETCAL SHELLS MASTMERT CONCENTRATES OF SHREETCAL CAPS - DEPENDENCE MASTMERT CONCENTRATE OF SHREETCAL CAPS - DEPONDENCE MASTMERT CONCENTRATE OF SHREETCAL CAPS - DEPONDENCE MASTMERT CONCENT		N63-10030	01-34	CHARLESTER PLANT AND THE RESERVED AS A SAME A SECOND SHEET OF	L THIN
SMILTS TICAL MODEL OF THREE-AXES STABILIZED ALTHANTICAL MODEL OF THREE-AXES STABILIZED ALTHANTICAL MODEL OF THREE-AXES STABILIZED ARAPTORM AND	UNDER ACTION OF CONCENTRATED LO	PHERICAL SHEE	ORM	SHELLS IN THE PROPERTY OF THE	02-33
PLATFORM SIAD-93 M83-10455 SIAD-93 M83-10532 M83-10642 M83-10642 M83-10642 M83-10642 M83-10642 M83-10652 M83-10653 M83-10		M63-10113	01-33		
STATISTICAL METHOD IN THE MONLINEAR THEORY OF MAJORATICAL METHOD OF THE GAERN FUNCTION IN THE THERMOREASTIC MAJORATH TO UNITED	PLATFORM	108-65-28.	U 223 13	BUCKLING OF SHALLOW SPHERICAL SHELLS	AAUG
REASTIC SHELL MASA-TIF6 MASA-TIF-6 MA	MATAYION SHIELDING OF THE SELEC	AK REACTON BU	31,00%	THE THE PARTY AND THE THE PARTY AND THE PART	DEKMI
METHOD OF THE GREEN FUNCTION IN THE THEANDELASTIC IER SER. 131, 15SUE 16 MO3-10869 02-34 RESEARL 131, 15SUE 16 MO3-10869 02-34 RESEARL 131, 15SUE 16 MO3-10869 02-34 RESEARL 1311, 15SUE 16 MO3-10700 02-33 THIOGRY OF ELASTIC STABILITY AND POSTBUCKLING, RESEARL STRUCTURE INSTABILITY AND POSTBUCKLING, RESEARL STRUCTURE INSTABILITY AND POSTBUCKLING, RESEARCH SURVEY ON THE STABILITY ON SHELL STRUCTURE INSTABILITY PROBLEMS MO3-10805 02-34 MO	ELASTIC SHELL	7.94	Y-860	ON BOUNDARY CONDITIONS N63-10843	02-33
CAMERAL INSTABILITY OF CIRCUMPERENTIALLY STIFFENED SANDICKLING PRESSURE SUBJECTED TO UNIFIORAL EXTERNAL PRESSURE ON SPHERICAL SHELLS SUBJECTED TO PRESSURE NO SPHERICAL SHELLS SHELLS SUBJECTED TO PRESSURE ON SPHERICAL SHELLS SUBJECTED TO EXTERNAL PRESSURE OF SPHERICAL SHELLS SHELLS SUBJECTED TO EXTERNAL PRESSURE OF SPHERICAL SHELLS SHELLS SUBJECTED TO EXTERNAL PRESSURE OF SPHERICAL SHELLS SHELLS SHELL STABILITY OF SHELL STRUCTURE INSTABILITY OF SHELL STRUCTURE INSTABILITY OF SHELL STRUCTURE INSTABILITY OF SHELLS INSTABILITY OF SHELL STRUCTURE INSTABILITY OF SHELLS INSTABILITY OF SHELL STRUCTURE INSTABILITY OF SHELL STRUCTURE INSTABILITY OF SHELLS INSTABILITY OF SHELL STRUCTURE INSTABILITY OF SHELL STRUCTURE INSTABILITY OF SHELLS INSTABILIT		CURE DATE IN	LASTIC	BUCKLING PRESSURES FOR SPHERICAL CAPS	11117
BUCKLING OF SPHERICAL SHELLS SUBJECTED TO UNIFORM EXTERNAL PRESSURE NO.3-10045 02-33 THEORY OF ELASTIC STABILITY AND POSTBUCKLING, TENDOR OF ELASTIC STABILITY AND POSTBUCKLING, TENDOR ANALYSIS SHELL STRUCTURE INSTABILITY — SYMPOSIUM, 1962 MA3-10750 02-34 RALISTIC MISSILE SHELL STABILITY — SYMPOSIUM, 1962 SHELL STABILITY IN MISSILES AND SPACE VEHICLES — NO.3-10080 02-34 SHELL STABILITY IN MISSILES AND SPACE VEHICLES — NO.3-10080 02-34 SHELL STABILITY IN MISSILES AND SPACE VEHICLES — NO.3-10080 02-34 SHELL STABILITY IN MISSILES AND SPACE VEHICLES — NO.3-10080 02-34 MAJOR AIRFRAME COMPONENT INSTABILITY — DESIGN AND TESTING — NO.3-10810 02-35 MERICATING OF SPHERICAL SHELLS — NO.3-10810 02-36 MERICATING OF SPHERICAL SHELLS — NO.3-10810 02-36 MAJOR AIRFRAME COMPONENT INSTABILITY — DESIGN AND TESTING — NO.3-10810 02-36 MAJOR AIRFRAME COMPONENT INSTABILITY — DESIGN AND TESTING — NO.3-10810 02-36 MERICATING OF PRIVIAL IMPERSECTIONS ON HO.3-10810 02-36 MERICATING OF PRIVIAL IMPERSECTIONS ON HO.3-10810 02-36 MERICATING OF CYLINDRICAL SHELLS — NO.3-10820 02-33 MERICATING OF CYLINDRICAL SHELLS — NO.3-10820 02-33 MISTABILITY OF CYLINDRICAL SHELLS — NO.3-10820 02-33 MISTABILITY OF CYLINDRICAL SHELLS — NO.3-10820 02-33 MISTABILITY OF CYLINDRICAL SHELLS — NO.3-10830 02-33 MISTABILITY OF ORTHOGONALLY STIFFFRED CORBUSTORD — NO.3-10830 02-33 MISTABILITY OF ORTHOGONALLY STIFFFRED CORBUSTORD — NO.3-10830 02-33 MISTABILITY OF ORTHOGONALLY STIFFFRED CORBUSTORD — NO.3-10830 02-33 MISTABILITY OF ORTHOGONALLY STIFFRED CORBUSTORD — NO.3-10830 02-33 MISTABILITY OF	IER SER. 131, ISSUE 16	N63-10669	02-34	LARGE DEFLECTION THEORY FOR DETERMINING THE	SHEET TO
THEORY OF ELASTIC STABILITY AND POSTBUCKLING, TENSOR ANALYSIS N63-10755 02-20 SIREL STRUCTURE INSTABILITY - SYMPOSIUM, 1962 MISSA-TH-0-1510 N63-10800 02-34 DESIGN RELATED SHELL INSTABILITY PAGBLENS MISSA-10807 02-34 BALLISTIC MISSILE SHELL STABILITY PAGBLENS MISS-10807 02-34 SHELL STRUCTURE SHELL STABILITY PAGBLENS MISS-10807 02-34 SHELL STABILITY IN MISSILES AND SPACE VEHICLES MISS-10808 02-34 MAJOR AIRFRAME COMPONENT INSTABILITY - DESIGN AND MISSILES TO PHODES OF INITIAL IRPERFECTIONS ON STABILITY OF CYLINDRICAL SHELLS UNDER ANIAL COMPRESSION MISS-10816 02-33 INSTABILITY OF CYLINDRICAL SHELLS UNDER MISSON MISS-10826 02-33 BUCKLING OF REINFORCED ORTHOTROPIC CYLINDRICAL SHELLS UNDER MISS-10829 02-33 BUCKLING OF PRESSURE MISSING MISSING OP-10829 02-33 BUCKLING OF REINFORCED ORTHOTROPIC CYLINDERS MISS-10830 02-33 BUCKLING OF REINFORCED ORTHOTROPIC CYLINDERS MISS-10830 02-33 BUCKLING OF ALPYERO ORTHOTROPIC CAND SANDWICH CYLINDRICAL SHELLS UNDER MISS-10830 02-33 BUCKLING OF CHAVERED ORTHOTROPIC CAND SANDWICH CYLINDRICAL SHELLS UNDER MISS-10830 02-33 BUCKLING OF ALPYERO ORTHOTROPIC CAND SANDWICH CYLINDRICAL SHELLS UNDER MISS-10830 02-33 BUCKLING OF CAPPERSSURE MISS-10830 02-33 BUCKLING OF CAPPERSSURE MISS-10830 02-33 BUCKLING OF CAPPERSSURE MISS-10830 02-33 STABILITY OF ORTHOTROPIC CAND SANDWICH CYLINDRICAL SHELLS UNDER MISS-10830 02-33 BUCKLING OF CAPPERSSURE MISS-10830 02-33 BUCKLING OF CAPPERS ORTHOTROPIC CAPPERSSORE MISS-10830 02-33 BUCKLING	SANDWICH SHELLS SUBJECTED TO UN	IFORM EXTERN	AL DVIA	BUCKLING PRESSURE OF SPHERICAL SHELLS N63-10845	02-33
SHELL STRUCTURE INSTABILITY - SVMODSIUM, 1962 MSA-TN-D-1510 DESIGN RELATED SHELL INSTABILITY M63-10805 02-34 BALLISTIC MISSILE SHELL STABILITY M63-10805 02-34 BALLISTIC MISSILE SHELL STABILITY M63-10807 02-34 SHELL STABILITY IN MISSILES AND SPACE VEHICLES M63-10808 02-34 MAJOR AIRFRAME COMPONENT INSTABILITY - DESIGN AND TESTING EFFECTS OF MODES OF INITIAL IMPERFECTIONS ON STABILITY OF CYLINDRICAL SHELLS UNDER MISSILES M63-10810 02-33 MESHAME APPROACH TO BENDING INSTABILITY OF MS3-10814 02-33 MESHAME APPROACH TO BENDING INSTABILITY OF MS3-10824 02-33 MISSILITY OF CYLINDRICAL SHELLS M63-10825 02-33 MISSILITY OF CYLINDRICAL SHELLS M63-10820 02-33 MISSILITY OF CYLINDRICAL SHELLS M63-10820 02-33 MISSILITY OF ORTHOGONALLY STIFFENED CYLINDRICAL M63-10830 02-33 MISSIBILITY OF ORTHOGONALLY STIFFENED CYLINDRICAL M63-10830 02-33 MISSIBILITY OF ORTHOGONALLY STIFFENED CYLINDRICAL M63-10830 02-33 MISSIBILITY OF FORTHOGONALLY STIFFENED CYLINDRICAL M63-10830 02-33 MISSIBILITY OF ORTHOGONALLY STIFFENED CYLINDRICAL M63-10830 02-33 MISSIBILITY OF THIN TORISPESSION M63-10830 02-33 MISSIBILITY OF THIN TORISPESSION M63-10830 02-33 MISSIBLITY OF THIN TORISPESSION M63-10830 02-33 M63-10830 02-33 M63-10830 02-33 M63-10830 02-33 M63-10830 02-33	THEORY OF ELASTIC STABILITY AND	POSTBUCKLIN	ORS AND	C. C	
SHELL STRUCTURE INSTABILITY NOS-10804 02-34 MASI-TOP-01510 NOS-10804 02-34 BALLISTIC RISSILE SHELL INSTABILITY NOS-10805 02-34 BALLISTIC MISSILE SHELL STABILITY PROBLEMS NOS-10807 02-34 SHELL STABILITY IN MISSILES AND SPACE VEHICLES MOS-10809 02-34 MASION AIRFRAME COMPONENT INSTABILITY - DESIGN AND NOS-10810 02-33 MASION AIRFRAME COMPONENT INSTABILITY - DESIGN AND NOS-10810 02-33 MASION AIRFRAME COMPONENT INSTABILITY - DESIGN AND NOS-10810 02-33 MASION AIRFRAME COMPONENT INSTABILITY OF SPHERICAL SHELLS NOS-10809 02-33 MASION AIRFRAME COMPONENT INSTABILITY OF SPHERICAL SHELLS NOS-10810 02-33 MASION AIRFRAME COMPONENT INSTABILITY OF SPHERICAL SHELLS NOS-10810 02-33 MASION AIRFRAME COMPONENT INSTABILITY OF SPHERICAL SHELLS NOS-10810 02-33 MASIABILITY OF CYLINDRICAL SHELLS UNDER ANIAL OPPRESSION NOS-10829 02-33 INSTABILITY OF CYLINDRICAL SHELLS UNDER NOS-10829 02-33 INSTABILITY OF CYLINDRICAL SHELLS UNDER NOS-10829 02-33 INSTABILITY OF CYLINDRICAL SHELLS UNDER NOS-10829 02-33 INSTABILITY OF ORTHOGONALLY STIPFENED CYLINDRICAL NOS-10830 02-33 INSTABILITY OF ORTHOGONALLY STIPFENED	C11-80	N63-10755	02-20		SNIAT
RALLISTIC MISSILE SHELL STABILITY PROBLEMS M63-10807 02-34 SHELL STABILITY IN MISSILES AND SPACE VEHICLES M63-10809 02-34 SHELL STABILITY IN MISSILES AND SPACE VEHICLES M63-10810 02-34 SHELL STABILITY IN LARGE SPACE VEHICLE BOSSTERS M63-10810 02-34 MAJOR AIRFRAME COMPONENT INSTABILITY - DESIGN AND MESTING M33-10810 02-34 MAJOR AIRFRAME COMPONENT INSTABILITY - DESIGN AND TESTING M33-10810 02-33 EFFECTS OF HODES OF INITIAL IMPERFECTIONS ON STABILITY OF CYLINDRICAL SHELLS UNDER AKIAL M33-10810 02-33 MERRANE APPROACH TO BENDING INSTABILITY OF PRESSURIZED CYLINDRICAL SHELLS UNDER M33-10820 02-33 INSTABILITY OF CYLINDRICAL SHELLS UNDER M33-10820 02-33 BUCKLING OF REINFORCED DATHOTROPIC CYLINDRICAL SHELLS UNDER M33-10830 02-33 BUCKLING OF REINFORCED DATHOTROPIC CYLINDRICAL M33-10830 02-33 BUCKLING OF LAYERED ORTHOTROPIC AND SANDWICH CYLINDRICAL SHELLS IN AXIAL COMPRESSION M33-10830 02-33 BUCKLING OF LAYERED ORTHOTROPIC AND SANDWICH CYLINDRICAL SHELLS IN AXIAL COMPRESSION M33-10830 02-33 BUCKLING OF LAYERED ORTHOTROPIC AND SANDWICH CYLINDRICAL SHELLS IN AXIAL COMPRESSION M33-10830 02-33 BUCKLING OF CIRCULAR COLINDRICAL SHELLS M33-10830 02-33 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS M33-10830 02-3				CONDITIONS AND SHALL DEFLECTION THEORY	43. YH
SHELL STABILITY IN MISSILES AND SPACE VEHICLES M63-10800 02-34 SHELL STABILITY IN MISSILES AND SPACE VEHICLE BOOSTERS M63-10810 02-34 MAJOR AIRFRAME COMPONENT INSTABILITY — DESIGN AND M63-10810 02-33 MAJOR AIRFRAME COMPONENT INSTABILITY — DESIGN AND M63-10810 02-33 MAJOR AIRFRAME COMPONENT INSTABILITY — DESIGN AND M63-10810 02-33 MAJOR AIRFRAME COMPONENT INSTABILITY — DESIGN AND M63-10810 02-33 MAJOR AIRFRAME COMPONENT INSTABILITY — DESIGN AND M63-10810 02-33 MAJOR AIRFRAME COMPONENT INSTABILITY — DESIGN AND M63-10810 02-33 MAJOR AIRFRAME COMPONENT INSTABILITY — DESIGN AND M63-10810 02-33 MAJOR AIRFRAME COMPONENT INSTABILITY — DESIGN AND M63-10810 02-33 MAJOR AIRFRAME COMPONENT INSTABILITY — M63-10810 02-33 MAJOR AIRFRAME COMPONENT INSTABILITY — DESIGN AND M63-10810 02-33 MAJOR AIRFRAME COMPONENT INSTABILITY — DESIGN AND M63-10810 02-33 MAJOR AIRFRAME COMPONENT INSTABILITY — DESIGN AND M63-10810 02-33 MAJOR AIRFRAME COMPONENT INSTABILITY — M63-10851 — 02-33 MAJOR AIRFRAME COMPONENT INSTABILITY — M63-10852 — 02-33 MONILINEAR TRANSVERSE AXISVAMETRICAL SUBJECT TO M63-10852 —	*******		02-34		
SHELL STABILITY IN MISSILES AND SPACE VEHICLES M63-10810 02-34 SHELL STABILITY IN LARGE SPACE VEHICLE BOOSTERS N63-10810 02-34 MAJOR AIRFRAME COMPONENT INSTABILITY - DESIGN AND TESTING N63-10814 02-33 EFFECTS OF MODES OF INITIAL IMPERFECTIONS ON STABILITY OF CYLINDRICAL SHELLS UNDER AXIAL COMPRESSION N63-10818 02-33 MEMBRANE APPROACH TO BENDING INSTABILITY OF PRESSURIZED CYLINDRICAL SHELLS N63-10824 02-33 MISTABILITY OF CYLINDRICAL SHELLS UNDER M63-10829 02-33 INSTABILITY OF CYLINDRICAL SHELLS UNDER SM3-10830 02-33 INSTABILITY OF ORTHOGONALLY STIFFENED CYLINDRICAL SHELLS N63-10830 02-33 INSTABILITY OF ORTHOGONALLY STIFFENED CYLINDRICAL N63-10830 02-33 INSTABILITY OF ORTHOGONALLY STIFFENED CYLINDRICAL SHELLS N63-10830 02-33 INSTABILITY OF ORTHOGONALLY STIFFENED CYLINDRICAL N63-10830 02-33 INSTABILITY OF ORTHOGONALY STIFFENED INSTABILITY OF ORTHOGONALLY STIFFENED INSTABILITY OF			02-34	SUBJECTED TO ASYMMETRICAL LOADINGS	Grd840TY
SHELL STABILITY IN LARGE SPACE VEHICLE BOOSTERS N63-10810 02-34 MAJOR AIRFRAME COMPONENT INSTABILITY - DESIGN AND TESTING N63-10814 02-33 EFFECTS OF MODES OF INITIAL IMPERFECTIONS ON STABILITY OF CYLINDRICAL SHELLS LINDER AXIAL COMPRESSION N63-10818 02-33 MEMBRANE APPROACH TO BENDING INSTABILITY OF PRESSURIZED CYLINDRICAL SHELLS UNDER N63-10824 02-33 INSTABILITY OF CYLINDRICAL SHELLS UNDER N63-10825 02-33 BUCKLING OF REINFORCED ORTHOTROPIC CYLINDRES N63-10830 02-33 INSTABILITY OF ORTHOGONALLY STIFFENED CYLINDRICAL SHELLS IN AXIAL COMPRESSION N63-10830 02-33 INSTABILITY OF ORTHOGONALLY STIFFENED CYLINDRICAL SHELLS IN AXIAL COMPRESSION N63-10830 02-33 BUCKLING OF LAYERED ORTHOTROPIC CYLINDRICAL SHELLS IN AXIAL COMPRESSION N63-10830 02-33 BUCKLING OF LAYERED ORTHOTROPIC AND SANDWICH CYLINDRICAL SHELLS IN AXIAL COMPRESSION N63-10830 02-33 ELASTIC BUCKLING OF SIMPLY SUPPORTED CORRUGATED COME SANDWICH CYLINDRES N63-10830 02-33 ELASTIC BUCKLING OF SIMPLY SUPPORTED CORRUGATED COME SANDWICH CYLINDRES N63-10830 02-33 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SUBJECT TO N63-10835 02-33 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SUBJECT TO N63-10835 02-33 STABILITY OF HONEYCOMB SANDWICH CYLINDRES UNDER AXIAL COMPRESSION N63-10836 02-33 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SUBJECT TO N63-10836 02-33 STABILITY OF THIN MALLED CIRCULAR CONTICLAL SHELLS SUBJECT TO N63-10836 02-33 STABILITY OF THIN MALLED CIRCULAR CONTICLAL SHELLS SUBJECT TO N63-10836 02-33 STABILITY OF THIN MALLED CIRCULAR CONTICLAL SHELLS SHELLS STRUCTURES UNDER AXIAL COMPRESSION N63-10836 02-33 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SHELLS SHELLS STRUCTURE SUBJECT TO N63-10836 02-33 BUCKLING OF CONTICLAL SHELLS SHELLS SHELLS STRUCTURE SUBJECT TO N63-10836 02-33 BUCKLING OF CONTICLAL SHELLS SUBJECT TO N63-10836 02-33 BUCKLING OF CLOSED SHELLS OF REVOLUTION - ARTERIAL TITL	AND THE RESERVE OF THE PARTY OF			CI JAKE A TAY OF SANDA MATERIAL	THE PROPERTY OF THE PARTY OF TH
MAJOR AIRFRAME COMPONENT INSTABILITY - DESIGN AND TESTING M63-10814 02-33 MAS-10814 02-33 MAS-	SHELL STABILITY IN LARGE SPACE	VEHICLE BOOS		VELOUIZA DE EFERS SANCIEROS EN PROPERTO DE CONTROL POR	25.43
TESTING M63-10814 02-33 EFFECTS OF MODES OF INITIAL IMPERFECTIONS ON STABILITY OF CYLINDRICAL SHELLS UNDER AXIAL COMPRESSION M63-10816 02-33 MEMBRANE APPROACH TO BENDING INSTABILITY OF PRESSURIZED CYLINDRICAL SHELLS UNDER M63-10824 02-33 INSTABILITY OF CYLINDRICAL SHELLS UNDER M63-10829 02-33 BUCKLING OF REINFORCED DATHOTROPIC CYLINDRES M63-10830 02-33 BUCKLING OF REINFORCED DATHOTROPIC CYLINDRICAL SHELLS IN M63-10830 02-33 BUCKLING OF LAYERED DATHOTROPIC CYLINDRICAL SHELLS IN M63-10830 02-33 BUCKLING OF LAYERED DATHOTROPIC AND SANDWICH CYLINDRICAL SHELLS IN AXIAL COMPRESSION M63-10830 02-33 BUCKLING OF LAYERED DATHOTROPIC AND SANDWICH CYLINDRICAL SHELLS IN AXIAL COMPRESSION M63-10830 02-33 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SUBJECT TO AXIAL COMPRESSION M63-10834 02-33 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SUBJECT TO AXIAL IMPACT TO FORMER STABILITY OF THIN MALLED CIRCULAR CONICAL SHELLS SUBJECT TO AXIAL IMPACT TO FORMER STABILITY OF THIN MALLED CIRCULAR CONICAL SHELLS SUBJECT TO AXIAL IMPACT TO FORMER STABILITY OF THIN MALLED CIRCULAR CONICAL SHELLS SUBJECT TO AXIAL IMPACT TO FORMER STABILITY OF THIN MALLED CIRCULAR CONICAL SHELLS SUBJECT TO AXIAL IMPACT TO FORMER STABILITY OF THIN MALLED CIRCULAR CONICAL SHELLS SUBJECT TO AXIAL IMPACT TO AXIAL IMPACT TO FORMER STABILITY OF THIN MALLED CIRCULAR CONICAL SHELLS SUBJECT TO AXIAL IMPACT TO FORMER STABILITY OF THIN MALLED CIRCULAR CONICAL SHELLS SUBJECT TO AXIAL IMPACT TO FORMER STABILITY OF THIN MALLED CIRCULAR CONICAL SHELLS SUBJECT TO AXIAL IMPACT TO FORMER STABILITY OF THIN MALLED CIRCULAR CONICAL SHELLS SUBJECT TO AXIAL IMPACT TO FORMER STABILITY OF THIN MALLED CIRCULAR CONICAL SHELLS SUBJECT TO AXIAL IMPACT TO FORMER STABILITY OF THIN MALLED CIRCULAR CONICAL SHELLS SUBJECT TO AXIAL IMPACT TO FORMER STABILITY OF THIN MALLED CIRCULAR CONICAL SHELLS SUBJECT TO AXIAL IMPACT TO FORMER STABILITY OF THIN MALLED CIRCULAR CONICAL SHELLS SUBJECT TO AXIAL IMPACT TO FORMER STABILITY OF THIN MALLED CIRCULAR CONICAL SHELLS SUBJECT TO AXIAL IMPACT TO AXIAL	201013105	1.38 3×1.500GH	03 86w 20		
STABILITY OF CYLINDRICAL SHELLS UNDER AXIAL COMPRESSION N63-10818 02-33 BUCKLING OF REINFORCED ORTHOTROPIC AND SANDWICH CYLINDRICAL SHELLS IN AXIAL COMPRESSION N63-10832 02-33 BUCKLING OF LAYERED ORTHOTROPIC AND SANDWICH CYLINDRICAL SHELLS IN AXIAL COMPRESSION N63-10832 02-33 BUCKLING OF CYLINDROPIC AND SANDWICH CYLINDRICAL SHELLS IN AXIAL COMPRESSION N63-10832 02-33 BUCKLING OF CYLINDROPIC AND SANDWICH CYLINDROPIC CYLINDROPIC SANDWICH CYLINDROPIC AND SANDWICH CYLINDROPIC SAND	TESTING MADELS, SION LYLYERS SON	N63-10814	02-33	SHELLS UNDER BLAST AND IMPACT LOADING	9.6500
MEMBANE APPROACH TO BENDING INSTABILITY OF PRESSURIZED CYLINDRICAL SHELLS M63-10824 02-33 INSTABILITY OF CYLINDRICAL SHELLS UNDER HYDROSTATIC PRESSURE M63-10825 02-33 ELASTIC AND PLASTIC BUCKLING OF ORTHOTROPIC M63-10829 02-33 BUCKLING OF REINFORCED ORTHOTROPIC CYLINDRICAL SHELLS UNDER M63-10830 02-33 INSTABILITY OF ORTHOGONALLY STIFFENED CYLINDRICAL SHELLS UNDER M63-10831 02-33 BUCKLING OF LAYERED ORTHOTROPIC AND SANDWICH CYLINDRICAL SHELLS IN AXIAL COMPRESSION M63-10832 02-33 ELASTIC BUCKLING OF SIMPLY SUPPORTED CORRUGATED CORE SANDWICH CYLINDRICAL SHELLS IN AXIAL COMPRESSION STABILITY OF HONEYCOMB SANDWICH CYLINDRICAL SHELLS UNDER AXIAL COMPRESSION M63-10834 02-33 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SUBJECT TO M63-10835 02-33 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SUBJECT TO M63-10835 02-33 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SUBJECT TO M63-10835 02-33 BUCKLING OF CONSTANT THICKNESS M63-10836 02-33 BUCKLING OF MISSILE SHELL STRUCTURES UNDER TRANSIENT PRESSURE FURNISHED BY IMPULSE GENERATOR IR-62-17 BUCKLING OF CONSTANT THICKNESS M63-10836 02-33 BUCKLING OF CONSTANT THICKNESS M63-10836 02-33 BUCKLING OF COSED SHELLS OF REVOLUTION — MATERIAL ELLS STRUCTURES UNDER TRANSIENT PRESSURE FURNISHED BY IMPULSE GENERATOR IR-62-17 BUCKLING OF CLOSED SHELLS OF REVOLUTION — MATERIAL ELLS STRUCTURES UNDER TRANSIENT PRESSURE FURNISHED BY IMPULSE GENERATOR IR-62-17 BUCKLING OF CLOSED SHELLS OF REVOLUTION — MATERIAL ELLS STRUCTURES UNDER TRANSIENT PRESSURE FURNISHED BY IMPULSE GENERATOR IR-62-17 BUCKLING OF CLOSED SHELLS OF REVOLUTION — MATERIAL ELLS STRUCTURES UNDER TRANSIENT PRESSURE FURNISHED BY IMPULSE GENERATOR IR-62-17 BUCKLING OF CLOSED SHELLS OF REVOLUTION — MATERIAL ELLS STRUCTURES UNDER TRANSIENT PRESSURE FURNISHED BY IMPULSE GENERATOR IR-62-17 BUCKLING OF CLOSED SHELLS OF REVOLUTION — MATERIAL ELLS STRUCTURES UNDER TRANSIENT PRESSURE FURNISHED BY IMPULSE GENERATOR IR-62-17 BUCKLING OF CLOSED SHELLS OF REVOLUTION — MATERIAL ELLS STRUCTURES OF REVOLUTION — MATERIAL ELLS STRUCTURES OF	STABILITY OF CYLINDRICAL SHELLS	UNDER AXIAL	1913 9407	15485 H GROVEN TENA 563-15866	1-099 53
PRESSURIZED CYLINDRICAL SHELLS N63-10824 02-33 INSTABILITY OF CYLINDRICAL SHELLS UNDER HYDROSTATIC PRESSURE N63-10825 02-33 ELASTIC AND PLASTIC BUCKLING OF ORTHOTROPIC CYLINDERS N63-10829 02-33 BUCKLING OF REINFORCED ORTHOTROPIC CYLINDERS N63-10830 02-33 INSTABILITY OF ORTHOGONALLY STIFFENED CYLINDRICAL SHELLS N63-10831 02-33 BUCKLING OF LAYERED ORTHOTROPIC AND SANDWICH CYLINDRICAL SHELLS IN AXIAL COMPRESSION CYLINDRICAL SHELLS IN AXIAL COMPRESSION CORE SANDWICH CYLINDERS N63-10832 02-33 BUCKLING OF CIRCULAR CYLINDERS N63-10830 02-33 BUCKLING OF CIRCULAR CYLINDERS N63-10830 02-33 BUCKLING OF FINELS N63-10830 02-33 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SUBJECT TO N63-10830 02-33 BUCKLING OF FINELS N63-10830 02-33 BUCKLING OF FINELS SHELL STRUCTURE SHELL STRUCTURE SHELL STRUCTURE INSTABILITY PREDICTION N63-10830 02-33 BUCKLING OF LAYERED ORTHOTROPIC AND SANDWICH CYLINDRICAL SHELLS IN AXIAL COMPRESSION N63-10830 02-33 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SUBJECT TO N63-10830 02-33 BUCKLING OF FINEL STRUCTURES SUBJECT TO N63-10830 02-33 BUCKLING OF FINELS SUBJECT TO N63-10830 02-33 BUCKLING OF SHELL STRUCTURES UNDER TRANSIENT PRESSURE FUNNISHED BY IMPULSE GENERATOR 1R-62-17 BUCKLING OF CONICAL SHELLS UNDER TRANSIENT PRESSURE FUNNISHED BY IMPULSE GENERATOR 1R-62-17 BUCKLING OF CONICAL SHELLS UNDER TRANSIENT PRESSURE FUNNISHED BY IMPULSE GENERATOR 1R-62-17 BUCKLING OF CONICAL SHELLS UNDER TRANSIENT PRESSURE FUNNISHED BY IMPULSE GENERATOR 1R-62-17 BUCKLING OF CONICAL SHELLS UNDER TRANSIENT PRESSURE FUNNISHED BY IMPULSE GENERATOR 1R-62-17 BUCKLING OF CONICAL SHELLS UNDER TRANSIENT PRESSURE FUNNISHED BY IMPULSE GENERATOR 1R-62-17 BUCKLING OF CONICAL SHELLS OF REVOLU	HEMBRANE APPROACH TO BENDING IN	STABILITY OF		SHALLOW SPHERICAL SHELLS MEN N63-10853	MO-4 TOUR
INSTABILITY OF CYLINDRICAL SHELLS UNDER HYDROSTATIC PRESSURE N63-10825 BUCKLING OF REINFORCED DATHOTROPIC CYLINDERS N63-10830 BUCKLING OF REINFORCED DATHOTROPIC CYLINDERS N63-10831 BUCKLING OF CAYERED ORTHOTROPIC AND SANDWICH CYLINDRICAL SHELLS IN AXIAL COMPRESSION N63-10832 ELASTIC BUCKLING OF SIMPLY SUPPORTED CORRUGATED CORE SANDWICH CYLINDERS N63-10834 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS UNDER AXIAL COMPRESSION STABILITY OF HONEYCOMB SANDWICH CYLINDERS N63-10834 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SUBJECT TO N63-10835 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS STABILITY OF THIN MALLED CIRCULAR CONICAL SHELLS BUCKLING OF CIRCULAR CYLINDRICAL SHELLS STABILITY OF THIN MALLED CIRCULAR CONICAL SHELLS BUCKLING OF CIRCULAR CYNINDRICAL SHELLS STABILITY OF THIN MALLED CIRCULAR CONICAL SHELLS BUCKLING OF CIRCULAR CYLINDRICAL SHELLS BUCKLING OF CLOSED SHELLS OF REVOLUTION - MATERIAL BUCKLING OF	PRESSURIZED CYLINDRICAL SHELLS	TURES		DETERMINATION OF SHELL BUCKLING UNDER IMPUL	SIVE
ELASTIC AND PLASTIC BUCKLING OF ORTHOTROPIC CYLINDERS N63-10829 02-33 BUCKLING OF REINFORCED DRIHOTROPIC CYLINDERS N63-10830 02-33 INSTABILITY OF ORTHOGONALLY STIFFENED CYLINDRICAL N63-10831 02-33 BUCKLING OF LAYERED ORTHOTROPIC AND SANDWICH CYLINDRICAL SHELLS IN AXIAL COMPRESSION N63-10832 02-33 ELASTIC BUCKLING OF SIMPLY SUPPORTED CORRUGATED CORE SANDWICH CYLINDERS N63-10834 02-33 ELASTIC BUCKLING OF SIMPLY SUPPORTED CORRUGATED CORE SANDWICH CYLINDERS N63-10834 02-33 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SUBJECT TO N63-12256 05-33 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SUBJECT TO N63-1256 02-33 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SUBJECT TO N63-1256 02-33 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SUBJECT TO N63-1256 02-33 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SUBJECT TO N63-1256 02-33 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SUBJECT TO N63-1256 02-33 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SUBJECT TO N63-1256 02-33 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SUBJECT TO N63-1256 02-33 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SUBJECT TO N63-1256 02-33 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SUBJECT TO N63-1256 02-33 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SUBJECT TO N63-1256 02-33 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SUBJECT TO N63-1256 02-33 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SUBJECT TO N63-1256 02-33 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SUBJECT TO N63-1256 02-33 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SUBJECT TO N63-1256 02-33 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SUBJECT TO N63-1256 02-33 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SUBJECT TO N63-1256 02-33 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SUBJECT TO N63-1256 02-33 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SUBJECT TO N63-1256 02-33 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SUBJECT TO N63-1256 02-33 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SUBJECT TO N63-1256 02-33 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SUBJECT TO N63-1256 02-33 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SUBJECT TO N63-1256 02-33 BUCKLING OF CIRCULAR CYL			600034	THE DURAL DESCRIPTION IN CHIMPANIES	
BUCKLING OF REINFORCED DRIHOTROPIC CYLINDERS NO3-10830 02-33 INSTABILITY OF ORTHOGONALLY STIFFENED CYLINDRICAL SHELLS SHELLS BUCKLING OF LAYERED ORTHOTROPIC AND SANDWICH CYLINDRICAL SHELLS IN AXIAL COMPRESSION NO3-10832 02-33 ELASTIC BUCKLING OF SIMPLY SUPPORTED CORRUGATED CORE SANDWICH CYLINDERS NO3-10832 02-33 ELASTIC BUCKLING OF SIMPLY SUPPORTED CORRUGATED CORE SANDWICH CYLINDERS NO3-10832 02-33 STABILITY OF HONEYCOMB SANDWICH CYLINDERS UNDER AXIAL COMPRESSION NO3-10834 02-33 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SUBJECT TO NO3-10835 02-33 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SUBJECT TO NO3-10835 02-33 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS OF CONSTANT THICKNESS NO3-10836 02-33 BUCKLING OF CIRCULAR CONICAL SHELLS OF CONSTANT THICKNESS NO3-10836 02-33 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS OF CONSTANT THICKNESS NO3-10836 02-33 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS OF CONSTANT THICKNESS NO3-10836 02-33 BUCKLING OF CLOSED SHELLS OF REVOLUTION - MATERIAL ELASTIC BUCKLING OF CONICAL SHELLS UNDER TRANSIENT PRESSURE FURNISHED BY IMPULSE GENERATOR IR-62-17 STRENGTH PRESSURE INSTRUCTURE INSTRUCTURE INSTRUCTURE INSTRUCTURE INSTRU		IBLOSELFINE	NICKOR.		
INSTABILITY OF ORTHOGONALLY STIFFENED CYLINDRICAL N63-10831 02-33 BUCKLING OF LAYERED ORTHOTROPIC AND SANDWICH CYLINDRICAL SHELLS IN AXIAL COMPRESSION N63-10832 02-33 ELASTIC BUCKLING OF SIMPLY SUPPORTED CORRUGATED CORE SANDWICH CYLINDERS N63-10834 02-33 STABILITY OF HONEYCOMB SANDWICH CYLINDRIS UNDER AXIAL COMPRESSION N63-10834 02-33 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SUBJECT TO AND				SHELL STRUCTURE INSTABILITY M63-10857	02-33
BUCKLING OF LAYERED ORTHOTROPIC AND SANDWICH CYLINDRICAL SHELLS IN AXIAL COMPRESSION N63-10832 02-33 ELASTIC BUCKLING OF SIMPLY SUPPORTED CORRUGATED CORE SANDWICH CYLINDERS N63-10834 02-33 STABILITY OF HONEYCOMB SANDWICH CYLINDERS UNDER AXIAL COMPRESSION N63-10834 02-33 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SUBJECT TO N63-10835 02-33 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SUBJECT TO N63-10835 02-33 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SUBJECT TO N63-10835 02-33 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS STABILITY OF THIN MALLED CIRCULAR CONICAL SHELLS N63-10835 02-33 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS STABILITY OF THIN MALLED CIRCULAR CONICAL SHELLS N63-10836 02-33 BUCKLING OF CLOSED SHELLS OF REVOLUTION - MATERIAL ELASTIC BUCKLING OF CONICAL SHELLS UNDER TRANSIENT PRESSURE FURNISHED BY IMPULSE GENERATOR 1R-62-17 STERRICH OF CLOSED SHELLS OF REVOLUTION - MATERIAL FURNISHED				which will a serve and the control of the control o	
BUCKLING OF LAYERED ORTHOTROPIC AND SANDWICH CYLINDRICAL SHELLS IN AXIAL COMPRESSION N63-10832 02-33 ELASTIC BUCKLING OF SIMPLY SUPPORTED CORRUGATED CORE SANDWICH CYLINDERS N63-10833 02-33 STABILITY OF HONEYCOMB SANDWICH CYLINDERS UNDER AXIAL COMPRESSION N63-10834 02-33 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SUBJECT TO N63-10835 02-33 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SUBJECT TO N63-10835 02-33 BUCKLING OF MISSILE SHELL STRUCTURES UNDER TRANSIENT PRESSURE FURNISHED BY IMPULSE GENERATOR TRANSIENT PRESSURE FURNISHED BY IMPULSE GEN					02-33
ELASTIC BUCKLING OF SIMPLY SUPPORTED CORRUGATED CORE SANDWICH CYLINDERS N63-10833 02-33 STABILITY OF HONEYCOMB SANDWICH CYLINDERS UNDER AXIAL COMPRESSION N63-10834 02-33 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SUBJECT TO AXIAL IMPACT N63-10835 02-33 STABILITY OF THIN MALLED CIRCULAR CONICAL SHELLS OF CONSTANT THICKNESS N63-10836 02-33 ELASTIC BUCKLING OF CONICAL SHELLS UNDER ELASTIC BUCKLING OF CONICAL SHELLS UNDER SMALLOW SHELL THEORY APPLIED TO EQUILIBRIUM AND BUCKLING AROO-2028-14 N63-13540 08-33 SHALLOW SHELL THEORY APPLIED TO EQUILIBRIUM AND BUCKLING AROO-2028-14 N63-13540 08-33 BUCKLING OF THIN WALL CYLINDRICAL SHELLS N63-14006 09-33 BUCKLING OF HISSILE SHELL STRUCTURES UNDER TRANSIENT PRESSURE FURNISHED BY IMPULSE GENERATOR IR-62-17 BUCKLING OF CLOSED SHELLS OF REVOLUTION - MATERIAL THEORY APPLIED TO EQUILIBRIUM AND BUCKLING AROO-2028-14 N63-13540 08-33 SHALLOW SHELL THEORY APPLIED TO EQUILIBRIUM AND BUCKLING AROO-2028-14 N63-13540 08-33 SHALLOW SHELL THEORY APPLIED TO EQUILIBRIUM AND BUCKLING AROO-2028-14 N63-13540 08-33 BUCKLING OF CIRCUMAN AND THE CONTROL OF CONTROL	CYLINDRICAL SHELLS IN AXIAL CON	PRESSION	Trava	LONGITUDINAL IMPACT	T, TOM
STABILITY OF HONEYCOMB SANDWICH CYLINDERS UNDER AXIAL COMPRESSION NO3-10834 02-33 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SUBJECT TO AXIAL IMPACT STABILITY OF THIN MALLED CIRCULAR CONICAL SHELLS STABILITY OF THIN MALLED CIRCULAR CONICAL SHELLS OF CONSTANT THICKNESS NO3-10836 02-33 ELASTIC BUCKLING OF CONICAL SHELLS UNDER ELASTIC BUCKLING OF CONICAL SHELLS UNDER OF CONSTANT THICKNESS NO3-10836 02-33 BUCKLING OF CLOSED SHELLS OF REVOLUTION - MATERIAL VIELD STRENGTH EFFECTS ON BUCKLING STRENGTH	20×11 E5Y05-048	PAPPR-63035	AATA	CICIYAL TECHNIQUE FOR SMOCK SHOW WINATION !	DETA
STABILITY OF HONEYCOMB SANDWICH CYLINDERS UNDER AXIAL COMPRESSION N63-10834 02-33 BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SUBJECT TO AXIAL IMPACT N63-10835 02-33 STABILITY OF THIN HALLED CIRCULAR CONICAL SHELLS OF CONSTANT THICKNESS N63-10836 02-33 ELASTIC BUCKLING OF CONICAL SHELLS UNDER FLUTTER OF THIN WALL CYLINDRICAL SHELLS SM-62-37 BUCKLING OF HISSILE SHELL STRUCTURES UNDER TRANSIENT PRESSURE FURNISHED BY IMPULSE GENERATOR 1R-62-17 BUCKLING OF CLOSED SHELLS OF REVOLUTION - MATERIAL YIELD STRENGTH EFFECTS ON BUCKLING STRENGTH			02-33	SHALLOW SHELL THEORY APPLIED TO EQUILIBRIUM BUCKLING	ZNART
BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SUBJECT TO AXIAL IMPACT N63-10835 02-33 STABILITY OF THIN MALLED CIRCULAR CONICAL SHELLS OF CONSTANT THICKNESS N63-10836 02-33 ELASTIC BUCKLING OF CONICAL SHELLS UNDER BUCKLING OF COSED SHELLS OF REVOLUTION - MATERIAL YIELD STRENGTH EFFECTS ON BUCKLING STRENGTH			NDER	FLUTTER OF THIN WALL CYLINDRICAL SHELLS	S-EMORES II
STABILITY OF THIN HALLED CIRCULAR CONICAL SHELLS OF CONSTANT THICKNESS N63-10836 02-33 ELASTIC BUCKLING OF CONICAL SHELLS UNDER BUCKLING OF CLOSED SHELLS OF REVOLUTION - MATERIAL YIELD STRENGTH EFFECTS ON BUCKLING STRENGTH	BUCKLING OF CIRCULAR CYLINDRICA AXIAL IMPACT			BUCKLING OF MISSILE SHELL STRUCTURES UNDER	PRISE SENS
ELASTIC BUCKLING OF CONICAL SHELLS UNDER YIELD STRENGTH EFFECTS ON BUCKLING STRENGTH	STABILITY OF THIN WALLED CIRCUL OF CONSTANT THICKNESS	AR CONICAL SI N63-10836	HELLS 02-33	JUN-62-17 WARRINGT OF RECORDED M63-14643	10-33
	ELASTIC BUCKLING OF CONICAL SHE	LLS UNDER	CP F8EQ	YIELD STRENGTH EFFECTS ON BUCKLING STRENGTH	10930

	A A	
CYLINDRICAL SHELL BUCKLING UNDER DYNAMIC PRESSURE N63-15208 11-33	COATING AND THERMAL SHIELDING APPLICATIONS N63-13646 08-07	
PLASTIC STABILITY OF GEOMETRICALLY ORTHOTROPIC PLATES AND CYLINDRICAL SHELLS	STUDY OF SILICON-NITROGEN POLYMERS FOR PROTECTIVE COATING AND THERMAL SHIELDING APPLICATIONS	
N63-15795 13-33	N63-13647 08-07	
DEFORMATIONS AND STABILITY OF SPHERICAL SHELLS UNDER ECCENTRIC CONCENTRATED LOADS AND UNIFORM PRESSURE SURI-TR-834-6 N63-17061 15-33	STUDY OF SILICON-NITROGEN POLYMERS FOR PROTECTIVE COATING AND THERMAL SHIELDING APPLICATIONS N63-13648 06-07	
DEFORMATION AND STABILITY OF SPHERICAL SHELLS SURI-TR-834-5 N63-17712 16-33	CRYOPUMPING RESULTS FOR NITROGEN & CARBON DIDXIDE GAS USING THERMALLY SHIELDED CRYOSURFACES - FREE MOLECULES & TRANSITION FLOW AEDC-TOR-63-28 N63-13656 08-17	
BUCKLING STABILITY OF TORISPHERICAL SHELLS UNDER UNIFORM INTERNAL PRESSURE AFRA-TR-63-06 N63-20376 20-33	NUCLEAR REACTOR RADIATION SHIELDING OF THE ORGEL CRITICAL EXPERIMENT	
STABILITY OF ACRYLATE RESIN CELLULAR SHELLS -	EUR-149.F N63-13764 08-23	
JOINT & BONDING EFFECT ON YIELD AND BUCKLING FAILURE N63-22489 23-19	RESONANCE INTEGRALS AND SELF-SHIELDING FACTORS FOR DETECTOR FOILS USED IN REACTOR PHYSICS MEASUREMENT OP-817 N63-13977 09-23	
THEORY OF ELASTIC STABILITY AND POSTBUCKLING,	USES FOR DEPLETED URANTUM AND NONENERGY USES FOR	
TENSOR ANALYSIS C11-80 N63-10755 02-20	NATURAL URANIUM - SHIELDING, AMMUNITION, WEAPONS, AND COUNTER WEIGHTS	
GENERATION OF INVARIANT SHELLS BY CHARGED PARTICLE	DMIC-MEMO-165 N63-14283 10-18	
MOTION IN DIPOLE FIELDS EFINS-62-72 N63-12034 05-28	PROGRAM REQUIREMENTS AND DESIGN OF 300 TO 1000-BEV ACCELERATOR - SHIELDING, KINETICS, PROTON BEAM	
CIRCULAR CYLINDRICAL SHELL UNDER SPACE BAND LOADS	BNL-772/T-290/ N63-14947 11-15	
BY ELASTICITY AND SHELL THEORIES PIBAL-658 N63-13430 08-33	DESIGN STUDY FOR 300 TO 1000-BEV ACCELERATOR - SHIELDING, PROTON BEAM KINETICS, PARTICLE	
SHALLOW SHELL THEORY APPLIED TO EQUILIBRIUM AND	DETECTION AND IDENTIFICATION N63-14949 11-15	
BUCKLING ARDD-2028-14 N63-13540 08-33	CALCULATED RESULTS FOR TRANSIENT HEATING AND MELTING OF GLASS SHIELD AT STAGNATION POINT OF	
RIGID PLASTIC SHELL THEORY WITH YIELD STRENGTH AND	REENTERING ICBM NASA-TN-D-1643 N63-15347 12-30	
FLOW THEORY EQUATIONS DOMITY-1-23 N63-18253 17-32	SURVEY OF METEOROID PROPERTY AND DISTRIBUTION DATA	
THREE-DIMENSIONAL SUCCESSIVE APPROXIMATIONS FOR ELASTICITY EQUATIONS OF REVOLVING SHELLS -	RELEVANT TO SYSTEM FOR NUCLEAR AUXILIARY POWER 8 REACTOR AND SHIELD DESIGN NAA-SR-8127 N63-15415 12-32	
DEFORMATION THEORY WAL-TR-893.3/4 N63-19445 19-33	METEOROID IMPACT - SHIELDING N63-16452 14-05	
CAPTURE OF NEGATIVE PIONS FROM REST BY LIGHT NUCLEI INVESTIGATED BY MEANS OF SHELL MODEL	PLANETARY AERONOMY - ATOMIC SHIELDING FACTORS AND	
CALCULATION NYO-10278 N63-21699 22-23	CHANGES IN ATOMIC CHARGE DISTRIBUTION IN INTERACTION WITH MAGNETIC FIELD	
SHELTER PERSONNELS ARREST AND	GCA-TR-63-2-N N63-17315 15-23	
UNDERGROUND EFFECTS OF NUCLEAR DETONATION - INPUT DATA FOR DESIGN OF PROTECTIVE STRUCTURES - AIR BLAST, GROUND SHOCK & ASSOCIATED GROUND MOTION	GAMMA DOSE REDUCTION CAUSED BY SHADOW SHIELDING STRUCTURES LAMS-2904 N63-18876 18-23	
DASA-1357/1/ N63-15835 13-01	PERSONNEL SHIELDING AGAINST CHARGED PARTICLES IN	
ATTENUATION OF GAMMA RADIATION IN A TWO-LEGGED 11-INCH RECTANGULAR DUCT - RADIATION SHIELDING -	SPACE USING ELECTRIC OR MAGNETIC FIELDS — ELECTROSTATIC SHIELDING ASD-TOR-63-194 N63-18993 18-16	
PROTECTIVE SHELTER INVESTIGATION R-195 N63-16049 13-23	THE STREET STREET	
POTABLE WATER RECOVERY FROM AQUEOUS WASTES DEVELOPED IN FALLOUT SHELTER N63-17607 16-16	FABRICATION OF NEW SOCKING FOR MASTER-SLAVE MANIPULATORS — SHIELDING WORKER IN RADIOACTIVE ENVIRONMENT — HANDLING EQUIPMENT UCRL-9658 N63-19016 18-16	
SHIELDING LANY TO LANE AND LIFE DAME SERVED AND THE	THE REPORT OF THE PROPERTY OF THE PERSON OF	
SA HEAT SHIELD SA SPACECRAFT SHIELDING NUCLEON-MESON CASCADE CALCULATIONS AND SHIELDING	PROBLEMS OF SHIELDING NUCLEAR ENERGY PLANTS EUR-233.1 N63-19351 18-23	
OF 800-MEV PROTON BEAM	SYSTEM FOR NUCLEAR AUXILIARY POWER-PROGRAM/SNAP 8/ REACTOR AND SHIELD DESIGN	
ORNL-3406 N63-12990 07-23	AIAA PAPER-63033 N63-20723 21-06	
NUCLEON-MESON CASCADE CALCULATIONS - PART 2, TRANSVERSE SHIELDING FOR 45-GEV ELECTRON ACCELERATOR	MAGNETICALLY SHIELDED ELECTRON GUN TO PRODUCE BRILLOUIN-FOCUSED ELECTRON BEAM	
ORNL-3365 N63-13250 07-23	N63-21637 22-23	
SPACE VEHICLE SHIELDING - MODEL SOLAR FLARE ATTENUATION AND MONDENERGETIC PROTON BEAMS BY ALUMINUM SHIELDS NA3-13319 07-23	OPTIMIZED ULTRALOW-FREQUENCY SHIELDED-LOOP ANTENNA RE-TR-63-7 N63-22604 23-09	
NETS AND PROPERTY OF THE PROPERTY OF THE PROPERTY AND THE	SHIFT TOTAL AND BURLEY AND BURLEY DO BLOW OUT, TO PERSONALE	
PAINTS AND SOLAR REFLECTORS AS TEMPERATURE CONTROL SURFACES FOR SPACECRAFT JPL-TR-32-340 N63-13441 08-13	SA PHASE SHIFT	
STUDY OF STLICON-NITROGEN POLYMERS FOR PROTECTIVE	CF FREQUENCY-SHIFT KEYING SHIFT INVARIANT LINEAR MANIFOLDS	

08-07 77 VE 08-07 77 VE 08-07 7X IDE REE 08-17 GEL 08-23

S FOR EMENT 09-23 FOR DNS,

10-14 D-8EV 4 11-15

2-30 DATA 8 2-32 4-95 AND 55-23 IN

1-16

8/ -06

-23

-01

Hed.

NRC-359 PRESSURE INDUCED SHIFTS OF INFR- POLAR MOLECULES			SA THERMAL SHOCK CF IMPACT A COMPARISON OF SHOCK AND VIBRATION FOR AIR, RAIL, SEA, AND HIGHMAY TRANSPORTATION
AFCRL-63-231 ASHLEASH MOTTA OFF	M63-13667	06-23	12 TO MENSIES OF MENSIES N63-10098 (1-01-22
SHIFT REGISTER UTILIZATION OF NONPRECISE TUNIN TECHNIQUES FOR PRECISE FREQUENCY			LANDING CHARACTERISTICS OF WINGED REENTRY VEHICLE WITH ALL-SKID LANDING GEAR HAVING VIELDING METAL SHOCK ABSORBERS NASA-TN-D-1496 NASA-TN-D-1496 NASA-TN-D-1496
TECHNIQUE FOR MATCHING FLUID COL DESIGN OF SHIFT REGISTER	N63-13408		THEORETICAL CALCULATIONS ON SHOCK INITIATION OF SOLID EXPLOSIVES NOLTR-62-160
SHIFT REGISTER-DECODER FTD-TT-62-1436/16264			VISCOPLASTIC EQUATIONS FOR AXISYMMETRIC
BINARY SEQUENCE GENERATORS - DE	SIGN THEORY	OF .	APGC-TDR-62-74 27GTARENES X3000 N63-12005 305-33
SHIFT-REGISTER COUNTERS -RM-3874-PR SHILLELAGH GUIDED MISSILE	SO TO MOSTAT	308	EFFECTS OF HYPOTHERMIA ON SHOCK SYNDROME, AND ON BLOOD PROTEIN LEVELS OF IRRADIATED ANIMALS
METHOD OF OBTAINING TEST-TO-FAI THERMAL BATTERIES AND OTHER ONE- SHILLELAGH MISSILE SYSTEM	-SHOT ITEMS N63-14157	IN 09-06	JPRS-17262 N63-12020 05-16 ELECTRICAL AND MECHANICAL INTERFERENCE AND MEANS OF NOISE ELIMINATION NR-005.09-1401.04 N63-12048 05-08
CHIP	- 2.5%0	CTETEN .	CHERTCHLLY FROM BY THE CHERT LIFTER WITH SHIPPING
OF HYDROFOIL NORMAL MODES OF NONLINEAR COUPLINEIR STABILITY	ED SHIP MOTI	ONS AND	EFFECTS OF LOAD PULSE ON SHOCK ABSORBING CHARACTERISTICS OF VERNICULITE CONCRETE AND POLYURETHANE PLASTIC
IER SER. 173, ISSUE 5	M63-10167	01-11	DASA-1299 M TO MATTER TO DAG J PLONE N63-12182 M 05-33
ANALYSIS OF THE BULBOUS BON ON	M63-10215		MEASUREMENTS OF LOADS, ACCELERATIONS, AND DISPLACEMENTS OF X-15 AIRCRAFT AND LANDING GEAR DURING LANDING IMPACT
SHIPS WITH ZERO WAVE RESISTANCE	N63-10216	01-11	MASA-TH-X-639 357 354 6737 054 34 N63-12564 Y 06-04
HYDRODYNAMIC THEORY - CALCULATION	AUTORITORIST RE	MARINE I	COMPARISON OF RESPONSES OF MEN AND DUMMIES TO SHIP SHOCK MOTIONS 144-144-144-144-144-144-144-144-144-144
SHIP IN WAVES	NOTE PROPERTY	9330	EFFECT OF FORWARD-FACING JET ON BOW SHOCK OF BLUNT
COMPARISON OF RESPONSES OF MEN			BODY IN SUPERSONIC FREE STREAM NASA-TN-D-1605 N63-13186 07-02
COMPUTER PROGRAM FOR CALCULATION INPACT PRESSURE IN SHIP SLAMMIN	G N63-15027	NABIL-	SUPERSONIC FLOW FIELD OF AN AEROBALLISTIC PELLET - VELOCITY, PRESSURE, WAKE AND RATE CHEMISTRY EFFECTS ON ELECTRON DENSITY - COMPUTER PROGRAM GASL-TR-292 MS9-13455 08-07
HUCLEAR PROPULSION SYSTEMS FOR	MERCHANT SHI N63-18929	IPS	FLASH RADIOGRAPHIC MEASUREMENT OF THE SHOCK OF COMPRESSIBILITY OF MAGNESIUM ALLOY, LUCITE, AND
FORCED OSCILLATION OF SHALLOW DE	RAFT SHIPS -		POLYETHYLENE AFSUC-TOR-62-134 N63-13522 OB-33
FLIGHT SCIENCES LAB. TR65 FL	N63-19324	18-23	THEORETICAL CALCULATIONS ON SHOCK INITIATION OF LIQUID TRINITROTOLUENE NOLTR-62-159 N63-14487 10-26
SHIPS WITH ZERO AND SMALL HAVE		M TA	MULTIPLE SHOCK AVOIDANCE SCHEDULE FOR TESTING
EFFECT OF NONLINEAR STATIC COUP STABILITY OF A SHIP MOVING IN DE			ARL-TDR-63-8 N63-15666 12-16
MA-63-3 AT EASESTATO TOUR-MOORE			UNDERGROUND EFFECTS OF NUCLEAR DETONATION -
VIBRATION ISOLATION HOUNTS USED AND MACHINERY - CHARACTERISTICS STEEL AND RUBBER HOUNTS			AIR BLAST, GROUND SHOCK & ASSOCIATED GROUND MOTION DASA-135771/ M63-15835 13-01
M. JPRS-21021 11 AARYDORGVH 40 MO 114	N63-21385	22-19	SYMPOSIUM ON SHDCK, VIBRATION, AND ASSOCIATED ENVIRONMENTS M63-16076 13-33
SHIP HULL FACTORS DETERMINING APPLICABILI QUENCHED AND TEMPERED STEELS TO CONSTRUCTION			GENERALIZED RESPONSE EVALUATION PROCEDURE FOR MULTIDEGREE SPRING MASS SYSTEM - VIORATION M63-16081 13-33
MRL-5092 MOT RULE D CZEVAM RU	N63-13492	08-34	DIGITAL TECHNIQUE FOR SHOCK AND VIBRATION DATA
HYDRODYNAMIC EQUATIONS FOR VELOU FREE SURFACE OF FLUID FLOW AROUN RE-164	ND SHIP HULL	3333	ACQUISITION N83-18093 13-33 DYNAMIC SIMULATION STUDIES OF SHOCK AND VIBRATION
MATHEMATICAL METHOD FOR CALCULA	TING SHIP HU	ILL	EFFECTS ON SURFACE VEHICLES - STRUCTURAL RESPONSE TO IMPACT PORCES - 863-16608 14-33
ONR-438 GOM	N63-17013	3 15-11 MAC	SHOCK, VIBRATION, AND ASSOCIATED ENVIRONMENTS AND
SHIP MODEL WAVE RESISTANCE DATA AND CONCOMITANT SURFACE MAVES GI VISCOUS DRAG	ENERATED BY	HULL ON	M63-16750 14-01 SINULATING THE DAMAGING EFFECTS OF SHOCK AND VIDRATION ENVIRONMENTS N65-16751 14-33
SHOCK HIS EVAN SITEMANOATORIS RO	ACTURESTICS.	RAST-11	11-01 - 20t03-20t
SA HYPERSONIC SHOCK	ST-OKA TOO W	AND S	SHOCK AND VIBRATION ENVIRONMENT TESTS -

SHOCK FRONT
CHARACTERISTICS OF ELECTROMAGNETIC WAVE IN
PRESENCE OF IONIZEO MEDIUM - SHOCK FRONTS, CONTACT
SURFACES, AND PLASMA PROFILE

OPTIMIZATION OF PROCEDURE	N63-16757 14-17	EXPLOSIVE SYSTEMS N63-20225 20-24
APPROACH TO SIMULATION OF POL SHOCK USING ELECTRODYNAMIC SH	N63-16761 14-02	REDUCTION AND ANALYSIS OF DATA FROM SHOCK AND RANDOM-TRANSIENT VIBRATION MEASUREMENTS N63-20886 21-2
SHOCK TEST METHODS		DYNAMIC ENVIRONMENTS AND ENVIRONMENTAL TESTING -
DESIGN OF SUSPENSION SYSTEMS HIGH INTENSITY SHOCK ENVIRONM		
ANALYSIS OF POLYURETHANE FOAM		AUTOMOBILES AND AIRCRAFT DVL-266 N63-20914 21-6 SHOCK WAVES ON HYPERVELOCITY FLOW IN A SOLID
USE OF RINGS AS SHOCK GENERAT	MANUAL SELECTION OF THE VIEW O	PROPELLANT DRIVEN TUNNEL FOR SIMULATING CONDITION OF SHOCK LOADING ON REENTRY VEHICLES DASA-1378
PIBAL-612	N63-16890 14-13	INITIATION OF DETONATION BY LOW AMPLITUDE SHOCKS
SHOCK WAVE GENERATOR - HEAT T DISTRIBUTION - SURFACE TEMPER		TO INVESTIGATE WALL MATERIALS N63-22372 23-2
PIBAL-437	N63-16891 14-13	SMALL SCALE SHOCK SENSITIVITY AND OUTPUT OF TRINITRO-1,3,5-TRIAZOCYCLOHEXANE/CALCIUM-STEARATE
CHEMICALLY FROZEN BOUNDARY LA REACTION BEHIND STRONG MOVING TDR-169/3230-12/TN-3	SHOCK	MIXTURES NOLTR-63-91 N63-22490 23-14
VIBRATION AND SHOCK LOAD TEST	LEVIN BRYGLADA ALL	FLIGHT SHOCK & VIBRATION DATA OF ECHD SATELLITE VERTICAL TESTS
	N63-18158 16-33	ANALYSYS OF THE WOLDENIS BOW ON BRIEFS
TRANSONIC MAGNETOGASDYNAMIC F MEDIUM - LEADING AND TRAILING	EDGE FLOW PATTERNS	PROPERTIES OF SHOCK RELAXATION IN GAS FLOWS CARRYING SMALL PARTICLES CAL-87-P N63-22752 23-11
PRESSURE PULSES, SHOCK AND VI		KRAMER & LINE RADIATION FROM NITROGEN & AIR SHOCK IN EQUILIBRIUM & NONEQUILIBRIUM CONDITIONS -
LAUNCH VEHICLE CONNECTORS - H VACUUM AND RADIATION EFFECTS NASA-CR-50562	ON CONNECTOR GASKETS	DEFENDER PROJECT NASA-CR-51850 N63-23008 24-1
ULTRAVIOLET SPECTRA OF SHOCK DICHLOROETHYLENE		SHOCK HUGONIOTS FOR HYDROGEN-ARGON MIXTURES - IDEAL GAS VIBRATIONS, DISSOCIATION, & IONIZATION RR-463-8 N63-23495 24-2
SHOCK INITIATION OF GRANULAR TO LOW DENSITY	N63-18553 17-11	REYNOLDS NUMBER EFFECT ON INVISCID PRESSURE DISTRIBUTIONS & SHOCK SHAPES OF CYLINDRICAL BODIE WITH DIFFERENT NOSE SHAPES & DRAG COEFFICIENTS
COLLECTION OF GEOPHYSICAL HOR GRAVITATIONAL EFFECT, SEISHIC GRAM, ROCK STUDIES	WAVE SHOCK, NOMO- N63-18752 17-12	NASA-TR-R-182 N63-23686 24-0 SHOCK SENSITIVITY CHARACTERISTICS OF LIQUID EXPLOSIVE SYSTEMS - HIGH 6 LOW VELOCITY
VIBRATION MEASURING APPARATUS INTENSITY OF SEISMIC MAVE SHO MAGNITUDE		DETONATIONS MASS THE NEW A LOW VELOCITY DETONATIONS MASS THE NEW MASS
SEISMIC EFFECTS OF SMALL EXPL BUILDING - SEISMIC WAVE SHOCK	OSIONS ON BRICK	GASEOUS RADIATION CHARACTERISTICS OF BLUNT BODIES AT HYPERSONIC SPEEDS - PART 11, FLOW FIELD SOLUTION IN SHOCK CAP
	N63-18763 17-12	CARDE-TH-726/63 N63-13160 07-1
DESIGN AND OPERATION OF SLING MACHINE FOR SMALL SPECIMENS F 40000-G AND IMPACT VELOCITIES	DR ACCELERATIONS TO TO 200-FPS	SHOCK DIFFUSER FIXED GEOMETRY SHOCK-DUCT DIFFUSERS IN HYPERSONIC HELLUM TUNNEL TG-461 N63-22036 23-8
THEORETICAL BASIS FOR MECHANI- SIMULATION IN SHOCK AND VIBRA		SHOCK DISCONTINUITY NUMERICAL COMPUTATION OF HYDRODYNAMIC FLOWS WHICH
MECHANICAL STRUCTURES NASA-TM-D-1854	N63-18888 18-33	CONTAIN A SHOCK NYO-9603 N63-11208 03-8
TITANIUM OXYGEN REACTIVITY - SENSITIVITY IN SPACE VEHICLE NASA-TH-X-50209	SHOCK AND IMPACT ENVIRONMENT .N63-19264 18-18	GENERAL THEORY DESCRIBING DISCONTINUOUS PROCESSES AND APPLICATION TO HYDRODYNAMIC INHOMOGENEITIES SUCH AS COMBUSTION WAVES, COMBUSTION ZOME MOTION N63-12263 05-2
SHOCK INITIATION IN SOLID EXP DETONATION WAVE STUDY NOLTR-63-103	LOSIVE BY GAS LOADING	EFFECT OF GRID AND CONSTRICTION FRICTION ON FLAME PROPAGATION VELOCITY, HEAT EXCHANGE AND ACQUISTIC SHOCK DISCONTINUITY FORMATION IN REACTIVE MEDIA
CONTINUUM INFRARED RADIATION SHOCK HEATED TO EQUILIBRIUM TO 9000-DEG	FROM AIR AND NITROGEN	SHOCK EXPANSION METHOD
AVCO-EVERETT RES. REPT154 ELECTRIC POLARIZABILITY OF AT	DHIC HYDROGEN IN	SNALL PERTURBATIONS IN HYPERSONIC FLOW - THEORY AND CALCULATION BY SHOCK EXPANSION METHOD - FLOW OVER BLUNT-NOSED BODY N63-15359 12-1
SHOCK HEATED FLOW AND UNDER TO CONDITIONS RR-463-7	N63-20009 19-11	SHOCK FRONT CHARACTERISTICS OF ELECTROMAGNETIC NAVE IN
THE REPORT OF THE PROPERTY OF	PETANSON DRA WINNE	PRESENCE OF IONIZED MEDIUM - SHOCK FRONTS, CONTAC

SHOCK SENSITIVITY CHARACTERISTICS OF LIQUID

20-24 ND. 21-20 NG -21-33

21-04 ITIONS 21-26 OCKS 23-26 ARATE 23-19 TE 23-62

23-11 HOCES 24-11

ION 24-23 SSIGO S 24-02

24-06

IES

7-11 NIC

3-10 ICH 3-20

SES S ON 5-26 LME IC L 5-26

W 1-11

KI

RADC-TDR-63-18 -20 90 - 42 100 00 - N63-13817 - 09-24	SHOCK TUNNEL - AIR AND HYDROGEN W63-12097 05-26
PROFILE OF SHOCK WAVE FRONT IN ARGON AND NITROGEN N63-15334 12-11	GUINEA PIG TOLERANCE OF SHOCK TUBE GENERATED AIR BLASTS - EFFECTS OF BODY ORIENTATION AND
CALCULATION OF FLOW BEHIND A NORMAL SHOCK FRONT FOR FINITE REACTION RATE CHEMISTRY	OVERPRESSURE OURATION AND A 18 18 18 18 18 18 18 18 18 18 18 18 18
863SD66 N63-23573 24-11	TOLERANCE OF GUINEA PIGS TO AIR BLASTS WHEN THE
SHOCK LAYER CONTROL OF SHOCK-INDUCED BOUNDARY-LAYER SEPARATION	MOUNTED IN SHALLOW AND DEEP CHAMBERS ON SHOCK
WITH DISCRETE AIR JETS ARC-19865 N63-10138 01-11	DASA-1334 N63-12281 05-16
THE MAGNETOHYDRODYNAMICALLY SUPPORTED HYPERSONIC SHOCK LAYER	INCREASE IN TRANSITION TIME EXPLAINED BY EXISTENCE OF DISTURBANCE ON SHOCK TUBE MALLS N63-12749 06-11
AVCO-EVERETT RES. REPT140 N63-10758 02-11	COMPUTATION OF KINETIC CONSTANTS FROM SINGLE-PULSE
HYPERSONIC SHOCK LAYER AT LOW REYNOLDS	SHOCK TUBE DATA - SQUID PROJECT PSU-9-P N63-12767 D6-11
ARL-62-453 N63-12026 05-11	RADIATION FROM REENTRY BODY AT SUPERORBITAL
EFFECTS OF AMBIENT DISSOCIATION AND SPECIES DIFFUSION FOR NONEQUILIBRIUM SHOCK LAYERS 1AS PAPER 63-70 N63-12652 06-11	VELOCITIES - SHOCK TUBE STUDIES IAS-PAPER-63-77 N63-12898 07-13
SHOCK-LAYER RADIATION OF BLUNT BODIES TRAVELING AT	TEST TIME IN LOW PRESSURE SHOCK TUBES - BOUNDARY LAYER AND WALL EFFECTS
LUNAR RETURN ENTRY VELOCITIES IAS PAPER-63-41 W63-12891 07-13	TDR-169/3230-12/TN-5 N63-13339 08-11
FLOW FIELD OF BLUNTED 9-DEGREE CONE - DOWNSTREAM	SHOCK TUBES FOR STUDY OF PHYSICAL AND CHEMICAL
AND SHOCK LAYER INVISCIO FLOW AND FAR MAKE LAMINAR FLOW OF TRAILBLAZER II REENTRY BODY	AMP-92 N63-13672 08-23
GASL-TR-256 (11 40 390) 30412 094 2 N63-13453 43 08-02	POWER SYSTEMS - MICRONAVE CIRCUITS, FERRITE PHASE SHIFTER, SHOCK TUBES, ELECTROLUMINESENCE AND
VISCOUS SHOCK LAYER FLOW OVER BLUNT BODIES GASL-TR-337 N63-13550 08-11	METHYLISOCYANATES N63-14104 02 09-01
DISCUSSION OF PLANE SHOCK MAYE STRUCTURE COMPUTATION OF SHOCK PROFILES AND APPLICATION OF NAVIER-STOKES SOLUTION N63-14099 09-11	UNIVERSAL SHOCK TUBE FOR APPLICATIONS IN CHEMICAL, MAGNETOHYDRODYNAMIC AND HYPERSONIC SHOCK EXPERIMENTATION N63-14109 09-11
NAVIER-STOKES SOLUTION N63-14099 09-11 FINITE DIFFERENCE METHODS AS APPLIED TO	PRECURSOR SIGNALS - PHOTOLONIZATION AND ELECTRON DIFFUSION - SPECTRONETRIC DETERMINATION
HYPERSONIC, VISCOUS SHOCK-LAYER EQUATIONS CAL-AF-1285-A-9	11-01 86101-669 NO NO MAKES N63-14915 4 10-24
MARS ATMOSPHERE - SHOCK LAYER STUDIES - TOTAL	PRESSURE GAUGE CALIBRATOR SIMULATION OF MAGNITUDE AND RISE TIME OF PRESSURE PULSES IN SHOCK TUBES
THERMOOYNAMIC CONDITIONS R635012	AND WIND TUNNELS NOLTR-62-218 N63-14627 10-15
INVISCID FLOW FIELD - SHOCK LAYER DATA FOR 10-DEG SPHERE-CONE N63-19017 18-11	PLANETARY ENTRY RESEARCH FOR MARS AND VENUS, 1962- EQUILIBRIUM THERMOCHEMISTRY, DISSOCIATION, HEAT
CHEMICAL NONEQUILIBRIUM EFFECTS IN VISCOUS SHOCK	TRANSFER, SHOCK TUBES, VENUS IONOSPHERE TIS-R62-SD-84 N69-14713 10-29
USCEC-76-101 N63-19168 18-11	CONVENTIONAL SHOCK TUBES FOR GENERATION OF VERY
COMPUTATION OF ENTIRE INVISCID FLOW FIELD IN SHOCK	LOW PRESSURE WAVES SUFFIELD-TN-92 - 31221 1449 24 - 483-14776 11-11
OR PLANAR BODY MOVING AT HYPERSONIC SPEED RR-40 RR-40 23-11	FREE STREAM PROPERTIES OF HYPERSONIC NONEQUILIBRIUM FLOW, AND ELECTRICAL PROPERTIES OF
SHOCK TUNNEL STANDORF DISTANCE LIVE, BOWLES SHOCK THROUGH STANDER	SHOCK TUNNEL PLASMA FLOW N63-15194 11-24
CONTROL OF SHOCK-INDUCED BOUNDARY-LAYER SEPARATION WITH DISCRETE AIR JETS	SHOCK TUBE TEST TIME LIMITATION DUE TO TURBULENT
11-10 0 8E101-E6MCMBUSTICM FMYSICY, SHORE 68E1-39R	MALL BOUNDARY LAYER CAS . 3344404839 03392 MOIN TDR-169/3230-12/TR-3 M63-16474 14-24
SINGLE PULSE SHOCK TUBE STUDIES - CIS-TRANS ISOMERIZATION OF BUTENE-2 CU-7356 N63-10699 02-07	EQUILIBRIUM GAS DYNAMICS AND PROPERTIES BEHIND INCIDENT AND REFLECTED NORMAL SHOCK MAYES IN SHOCK
SHOCK TUBES FOR HIGH-TEMPERATURE GAS KINETICS	ARC-CP-626 N63-16881 14-11
AVCO-EVERETT RES. REPT141 VAN N63-10806 02-23	BOUNDARY LAYER CONSTRICTIVE EFFECT - INDUCTING
SHOCK TUBE STUDY OF THE RECOMBINATION OF DAYGEN BY ARGON CATALYSTS AT HIGH TEMPERATURE AVCO-EVERETT RES. REPT142 No.3-10887 02-07	ACCELERATION OF FLOW BEHIND SHOCK MAVE IN SHOCK TUBE W G322330049-X3042 90 MOTEMARX YGARYZ ARC-CP-623 7 - 73MUT DATH W3042 (N63-16095) 41 14-11
SHOCK WAVE ATTENUATION IN TUNNELS BRL-MEMO-1401	MAGNETOGASDYNAMICS RESEARCH - STEADY PLASMA FLOW AND IONIZED GAS FLOW PRODUCED BY SHOCK TUBES -
LIQUID PROPELLANT SENSITIVITY, SHOCK TUBE AND FLASH-IRRADIATION TESTS ON NITROGLYCERINE	INFLUENCE OF ELECTRIC AND MAGNETIC FIELDS AD-283026 N83-16917 14-24
ARF-3197-15 N63-10956 02-26 A 17-INCH SHOCK TUBE FOR RAREFIED GAS DYNAMICS	PROBE TO MEASURE MASS FLOW PER UNIT AREA OP SHORT DURATION FLOWS IN HYPERSONIC SHOCK TUNNEL NPL/AERD/1004 N83-16940 14-11
N63-11731 04-11	OR ARTHUR BY NACH 10 ZEAUTRIM BOING ZUONTIM

EXPERIMENTAL RESULTS OF SUPERSONIC COMBUSTION IN

TUBE

MIT-TR-408 N63-17173 15-11	SKIN FRICTION TRANSDUCER FOR USE IN HYPERSONIC
ELECTRIC ENERGY AND SHOCK WAVES, SHOCK TUBES AND PLASMA FLOW N63-17432 15-11	CAL-129 N63-22395 23-15
CURRENT SHEET SPEED IN MAGNETIC ANNULAR SHOCK TUBE AVCO-EVERETT RES. REPT152 M63-17463 15-11	SHOCK WAVE INTERACTIONS AND STRONG SHOCKS - PLANE GASEOUS INTERFACE IN ELECTROMAGNETICALLY DRIVEN SHOCK TUBE ARDO-2303-4 N63-22430 23-11
EFFICIENCY OF ENERGY TRANSFER BY MAGNETICALLY	
DRIVEN SHOCK WAVES IN T-TUBE N63-17558 16-24	FIXED GEOMETRY SHOCK-DUCT DIFFUSERS IN HYPERSONIC HELIUM TUNNEL
INTERACTION OF REFLECTED SHOCK HAVE AND LAHINAR	TG-461 N63-22836 23-10
BOUNDARY LAYER IN SHOCK TUBE ARL/A-204 N63-17575 16-11	SHOCK WAVES IN ELECTROMAGNETICALLY-DRIVEN SHOCK TUBE AROD-2303-3 N63-22975 23-11
PROBE FOR MEASURING ELECTRICAL CONDUCTIVITY OF	MANUAL AND STREET STREET, STRE
10NIZED GAS IN HYPERSONIC SHOCK TUBE NOLTR-62-186 N63-17625 16-24	SHOCK TUBE PRESSURE CALIBRATION FOR USE AS ORIVER OF COLD, HIGH DENSITY HYPERSONIC TUNNEL ARC-CP-698 N63-23747 24-16
PIEZOCERAMIC PRESSURE TRANSDUCERS FOR SHOCK TUBE PRESSURE MEASUREMENT - SHOCK WAVE PROFILES OF REFLECTED WAVES, THICKNESS AND CURVATURE	STAGNATION POINT LANGMUIR PROBE IN SHOCK TUBE
NASA-CR-50495 N63-18139 16-11	ERROR A WHOLE HURATED TOWN WITH HOLDERS
TURBULENT SPOTS AND WALL ROUGHNESS EFFECTS IN SHOCK TUBE BOUNDARY LAYER TRANSITION	SMOCK MAVE SA NORMAL SMOCK WAVE PROBLEMS INVOLVING A GAS IDMIZING SHOCK WAVE IN AN
N63-18382 17-11	ELECTROMAGNETIC FIELD FTD-TT-62-1219/162 N63-10449 01-24
SHOCK TUBE IGNITION OF METHANE-DXYGEN MIXTURES N63-18519 17-26	SHOCK WAVE PROFILES OF ELLIPSOIDAL-MOSED BODIES IN
EXTENSION OF FREE FLIGHT TECHNIQUE TO LOW DENSITY	SUPERSONIC FLOW
SHOCK TUNNEL FLOWS TO MEASURE SPHERE DRAG AT MACH 15 OVER FREE STREAM KNUDSEN NUMBER RANGE .002725 R635023 N63-18639 17-11	SHOCK CONDITIONS AND STRUCTURE OF SHOCK MAVES IN A STEADY FLOW OF DISSIPATIVE FLUID ONERA-105 N63-10739 02-11
	A A HOUSE OF SECURITION OF THE PARTY OF THE
ARC DISCHARGE DRIVEN SHOCK TUBE DEVELOPMENT — MICRONAVE RADIATION EMISSION FROM AERODYNAMIC PLASMA 18-09	THERMODYNAMICS AND PROPAGATION OF CARBON DIDXIDE- AIR DETONATION NAVES AT VARIOUS INITIAL PRESSURES NASA-TN-D-1667 N63-10802 02-23
SODIUM LINE REVERSAL TEMPERATURE MEASUREMENTS OF NITROGEN AND AIR IN SHOCK TUBE	SHOCK WAVE ATTENUATION IN TUNNELS BRL-HEND-1401 02-11
UTIA-TN-66 M63-19188 18-11	SPATIAL NONSTATIONARY MOTIONS OF SOLID MEDIUM
SHOCK TUBE DESIGN FOR HIGH TEMPERATURE GAS SPECTROSCOPY - ASTROPHYSICAL STUDIES	WITH SHOCK WAVES AEC-TR-5400 N63-11026 03-23
AFCRL-63-252/X N63-19317 18-24	HEAT TRANSFER DUE TO INTERACTION BETWEEN A SWEPT
HIGH TEMPERATURE CONVECTIVE HEAT TRANSFER ACROSS TURBULENT BOMNOBRY LAYERS IN SUPERSONIC AND HYPERSONIC GAS FLOWS IN SHOCK TUBES	PLANAR SHOCK WAVE AND A LAMINAR BOUNDARY LAYER N63-11072 03-13
N63-20199 20-11	INFLUENCE OF SHOCK WAVE-BOUNDARY LAYER INTERACTION ON HEAT TRANSFER TO AXISYMMETRIC BODY
SHOCK COMBUSTION TUBE FUNCTION N63-20201 20-26	ARL-62-442 VOIS 310 N63-11071 04-13
USE OF SHOCK TUBE AS BALLISTIC ENGINE FLIGHT-	MEASUREMENT OF GROUND WAVE MOTION IN HALITE -
SIMULATOR N63-20202 20-17	PNE-128F AA HEGODE VIIN HOLD HEE - H63-11928 R 04-23
FLASH TUBE SHOCK TUBE COMBINATION SPECTROSCOPY IN ULTRAVIOLET AND VACUUM ULTRAVIOLET MAVELENGTH REGIONS 463-20653 20-23	FLOW FIELD & PRESSURE DISTRIBUTION MEASUREMENTS ON BLUNT-NOSE BODIES - SONIC LINE, BOW SHOCK WAVE SHAPE, STANOOFF DISTANCE
	ARC-CP-615 A 2 YAA MAGA 1 3 JOE 61 - N63-12093 05-02
MAGNETOHYDRODYNAMIC SHOCK TUBE - HIGH TEMPERATURE, HIGH SPEED PERFORMANCE, AND EMISSION SPECTROGRAPHY N63-20728 21-24	GAS DYNAMICS, COMBUSTION PHYSICS, SHOCK MAVE PROPAGATION, EXTERNAL FRICTION, HEAT EXCHANGE,
SUPPLEMENTING POSITIVE PRESSURE PULSE IN STANDARD	SUPERSONIC FLOW, DENSITY DISTRIBUTION NASA-TT-F-79 N63-12262 05-11
SHOCK TUBE UTILIZING SOLID PROPELLANTS DASA-1369 N63-21112 21-26	SCHLIEREN PHOTOGRAPHY STUDY OF COMBUSTION OF
THEORY OF SHOCK TUBE HAVING ARC-HEATED DRIVER RF-1021-18 N63-21221 21-11	HYDROGEN-DXYGEN MIXTURE AND VELOCITY VARIATION OF PROPAGATED SHOCK WAVES WITH TIME AS A FUNCTION N63-12264 05-28
STEADY EXPANSION OF SHOCK-PROCESSED NITROGEN GAS IN THE REFLECTED SHOCK WIND TUNNEL - PERFORMANCE CHARTS	SHOCK WAVE AND BOUNDARY LAYER INTERACTION IN SUPERSONIC FLOW IN ANGULAR LEDGE REGION N63-12268 05-11
ARC-CP-633	MARRICO HAVE ATTENUATION IN IDMNETS
ELECTROMAGNETIC SHOCK TUBE - LINEAR DISCHARGE TUBE FOR GENERATING STRONG SHOCKS IN AIR BY HIGH	IONIZATION UPSTREAM OF STRONG SHOCK MAVE BY RADIATION FROM HOT NOMEQULIBRIUM REGION DOWNSTREAM OF SHOCK
VOLTAGE SPARK NASA-TN-D-1953 N63-22114 22-11	CM-1020 1 100 100 100 100 100 100 100 100 1
DETONATION AND SHOCK TUBE STUDIES OF HYDRAZINE AND	HEAT TRANSFER AND PRESSURE DISTRIBUTION IN SHOCK WAVE TURBULENT BOUNDARY LAYER INTERACTION REGIONS SM-42567 16-24 07-62
ARL-63-157 of VIA 3173044 AT 13 N63-22347 A 23-26	THERMODYNAMICS OF CARBON DIDXIDE AND NITROGEN

Car 23-15 LAME 23-11 STAD 23-10 CK 23-11 IVER 24-10 14-11

-1-24 5 IN 1-02 IN A 2-11 DE -RES 2-23

1-11

-23 T -13 104 -13

-23

-02

-11 F 26

11

11

5

SUBJECT TNDEX	SHOCK MAVE CONTO
BEHIND NORMAL SHOCK WAVE NASA-TN-0-1553 N63-13217 07-23	MICROWAYE PLASMA PROBE FOR STUDY OF SHOCK MAYES IN PLASMAS AND INERT GASES AFCH63-123 N63-17474 15-24
HYPERSONIC WIND TUNNEL TEST - AGARD MODEL E, HEAT TRANSFER, PRESSURE DISTRIBUTION, SHOCK WAVES AND NEMISPHERE N63-13514 08-02	EFFICIENCY OF ENERGY TRANSFER BY MAGNETICALLY DRIVEN SHOCK MAVES IN T-TUBE N63-17558 16-24
EFFECTS OF BOUNDARY LAYER BLEED ON SHOCK WAVE- BOUNDARY LAYER INTERACTION USCEC-65-35 N63-13521 08-11	INTERACTION OF REFLECTED SHOCK WAVE AND LAMINAR BOUNDARY LAYER IN SHOCK TUBE
FREE AXISYMMETRIC JET MIXING AT MACH 1.40 - JET TUMBULENCE, STATIC-DYNAMIC PRESSURE, BOUNDARY LAYER-SHOCK MAYE INTERACTION & VELOCITY PROFILES ARC-REM-3292 N63-13787 09-11	RELAXATION PROCESSES OF INVISCID, MOMEGUILIBRIUM FLOW BEHIND BOW AND NORMAL SHOCK WAVES CAL-QM-1626-A-12/1/ NG3-18105 16-11
HYPERSONIC FLOM ANALYSIS - REAL GAS OBLIQUE SHOCK FUNCTIONS FOR AIR IN CHEMICAL EQUILIBRIUM - TWO AND THREE DIMENSIONAL FLOM 04-63-1 09-11	COMPARISON OF SIX CALCULATION METHODS TO SOLVE A NOMLINEAR PARTIAL DIFFERENTIAL EQUATION MITH SHOCKS AND RAREFACTION WAVE - COST AND ACCURACY NOLTR-63-8
POLARIZATION INDUCTION OF DIELECTRIC MATERIALS BY SHOCK MAYES, UTILIZING POLYSTYRENE N63-13915 09-23	GENERATION OF SHOCK WAVE BY FLAME IN EXPLOSIVE GAS DURING INITIAL ACCELERATION . N63-18526 17-26
SHOCK WAVE STRUCTURE - SHOCK PROFILE STUDY USING GRAD EQUATION N63-14387 10-11	STRUCTURE AND INITIATION OF DETONATIONS IN THE CONDENSED PHASE - TRANSVERSE SHOCK MAYES NG3-18541 17-26
NONUNIFORM MAGNETOHYDRODYNAMIC SHOCK PROPAGATION HITH REFERENCE TO CYLINDRICAL AND SPHERICAL SHOCK HAVES MRC-310 N63-14462 10-24	DEVELOPMENT OF SHOCK WAVE & ITS SUBSEQUENT GROWTH- TO-DETONATION IN TRINITROTOLUENE AND VARIOUS CYCLOTOLS N63-18552 17-11
CYLINDRICAL AND SPHERICAL SHOCK WAYES IN HONATORIC	COMBUSTION OF HYDROCARBON FUEL BEHIND SHOCK MAYES N63-18596 17-26
CONDUCTING FLUIDS - NUMERICAL INTEGRATION NRG-299 N83-14474 10-11 SHOCK WAYE INTERACTION WITH A BURNING PROPELLANT -	INVISCID HYPERSONIC FLOW FOR POWER LAW SHOCK WAVES N63-18890 18-11
BURNING RATE EQUATIONS N63-14657 10-26 ENERGY EXCHANGE IN SHOCK AND DETONATION WAVE	PHYSICAL CHANGES AND TRANSITIONS IN SAMPLES SUBJECTED TO SHOCK WAVES FROM NUCLEAR EXPLOSIONS — GNOME PROJECT
N63-14874 11-11	PNE-112F, PT. 1 N63-18907 18-33
BREAKUP OF WATER JET BY TRANSVERSE SHOCK WAVE NASA-TN-D-1728 N63-15561 12-11 MATHEMATICAL ANALYSIS OF CARTOGRAPHIC PHOTOGRAPH	PRESSURE EXERTED BY SHOCK MAVES IN SOLID MEDIA - OPTICAL, ELECTRICAL AND X-RAY TECHNIQUES USED TO MEASURE SHOCK AND FREE SURFACE VELOCITIES POULTER LABS. TR-002-63 N63-19134 18-25
DISTORTION CAUSED BY CONICAL SHOCK NAVES N63-15656 12-12	SODIUM LINE REVERSAL TEMPERATURE MEASUREMENTS OF
SONIC BOOM CAUSED BY SUPERSONIC AIRCRAFT HIT-AL-TR-29 N63-15946 13-04	MIGROWAVE RADIATION EFFECTS ON IONIZED GAS BEHIND
EFFECT OF SHOCK-INDUCED DYNAMIC RRESSURES ON IRON- BASE ALLOYS ASD-TDR-62-442 N63-16116 13-18	NORMAL SHOCK WAVE R63SD60 N63-19365 18-24
AXISYMMETRIC DOUBLE COME EXTERNAL COMPRESSION INLET IN TRANSONIC RANGE - DRAG COMPONENTS AT DETACHED SHOCK CONDITIONS	FINITE DIFFERENCE SOLUTION OF UNSTEADY FLOW PROBLEMS IN TWO-DIMENSIONAL SPACES - UNDERWATER SHOCK WAVE APPLICATIONS AS-63-2 N63-19824 19-11
NASA-TM-X-154 N63-16136 13-92 AERODYNAMIC HEAT REDUCTION BY PLACING SHOCK GENERATOR AHEAD OF MAIN BODY IN HYPERSONIC	COMPRESSIBILITY OF PYROLYTIC GRAPHITE USING EXPLOSIVE GENERATED SHOCK WAVES NOLTR-63-75 M63-19932 19-19
ATRICALET PIBAL-325 CHAN ON MOILE AND MAG-16892 14-11	HYPERSONIC AMOCK MAVES AS A FUNCTION OF ANGLE OF ATTACK & RAMJET CAPABILITIES NO3-20025 19-11
BOUNDARY LAYER CONSTRICTIVE EFFECT - INDUCING ACCELERATION OF FLOW BEHIND SHOCK MAVE IN SHOCK TUBE ARC-CP-625 N63-16895 14-11	MAGNETOHYDROGYNAMIC SHOCK WAVE STRUCTURE IN PARTIALLY IONIZED HYDROGEN - ELECTRON TEMPERATURE OF NEUTRAL PARTICLES BY SOFT X-RAY TECHNIQUE
CHARGED PARTICLE ACCELERATIONS BY HYDROMAGNETIC	AVCO-EVERETT AES. REPT153 N63-20060 20-24
SHOCK MAYES IN MAGNETOSPHERE RH-3527-NASA 15-24	SHOCK-TO-DETONATION TRANSITION IN CYCLOTOL EXPLOSIVES NOLTR-62-197 N63-20069 20-23
STANDING SHOCK WAVE HYPOTHESIS AS EXPLANATION OF OBSERVED STABILITY OF SOLAR WIND-GEOMAGNETIC FIELD INTERFACE - MAGNETOSPHERE BOUNDARY NASA-CR-50152 N63-17161 15-12	MACHETOHYDRODYNAMICS - POISEUILLE PROBLEM AND SHOCK WAYE PROPAGATION N63-20197 20-24
ELECTRIC ENERGY AND SHOCK WAVES, SHOCK TUBES AND PLASMA FLOW PLASMA FLOW	CONSECUTIVE PHYSICAL AND AERODYNAMIC EFFECTS OF SHOCK WAVES N63-20200 20-11
INTENSITY OF MOLECULAR BAND INFRARED RADIATION OF HIGH TEMPERATURE GASES USING REFLECTED SHOCK WAVES — CARBON DIOVIDE	ELLIPTICAL COME - PRESSURE DISTRIBUTION, FLOW STREAMLIMES, AND SHOCK WAVE SHAPE AT HIGH ANGLES OF ATTACK AT MACH 10 AEDC-TDR-03-163
GDA63-0240 N63-17457 15-11	COLLISIONAL PROCESSES LEADING TO ELECTRONIC

COLLISIONAL PROCESSES LEADING TO ELECTRONIC

SHO

SH

Si

EXCITATION AND IONIZATION BEHIND SHOCK WAVES	DRAG COEFFICIENT FROM VAPORIZED JET NASA-CR-51013 N63-23046 24-26
NOLTR-63-33 N63-20420 20-11	IN-FLIGHT SHOCK WAVE PRESSURE MEASUREMENTS ABOVE
FORTRAN SUBROUTINE TO CALCULATE SHAPE & LOCATION OF DETACHED SHOCK WAVES ON DIGITAL COMPUTER R-31 N63-20517 20-11	AND BELOW BOMBER AIRCRAFT AT MACH 1-42 TO 1-69 MASA-TN-D-1968 N63-23125 24-0
THERMAL RADIATION FROM ABLATING PLASTIC MATERIALS INJECTED INTO HYPERSONIC SHOCK WAVES	DIFFRACTION OF BLAST WAVE/SHOCK WAVE INTERACTION TOR-269/4230-30/-1 N63-23720 24-04
NASA-TN-D-1978 N63-20608 20-13 NONEQUILIBRIUM AXISYMMETRIC BLUNT BODY FLOW-SHOCK	HUMERICAL INTEGRATION OF THE NAVIER-STOKES EQUATIONS FOR SHOCK WAVE STRUCTURE PROBLEMS N63-23771 24-13
MAVE CHERICAL COUPLING BY INTEGRAL RELATIONS MIT-DSR-9126 N63-20659 20-11	SHOCK WAVE PROFILE DEPENDENCE OF SHOCK WAVE STRENGTH ON PROJECTILE
HUGONIOT EQUATION OF STATE DATA OBTAINED FOR ROCKS BY SHOCK WAYE TECHNIQUE	DEPENDENCE OF SHOCK WAVE STRENGTH ON PROJECTILE SHAPE AND REVIEW OF SHAPE FACTOR THEORY - WING- BODY CONFIGURATION N63-13832 09-02
AFCRL-63-662 N63-20783 21-19 SHOCK WAYES, DISLOCATIONS, & THEIR INTERACTIONS -	DISCUSSION OF PLANE SHOCK WAVE STRUCTURE COMPUTATION OF SHOCK PROFILES AND APPLICATION OF
PLASTIC-PLASTIC THEORY NOLTR-63-94 N63-20993 21-11	MAYIER-STOKES SOLUTION M63-14099 09-11 SHOCK MAYE STRUCTURE - SHOCK PROFILE STUDY USING
VIBRATIONAL AND DISSOCIATION NONEQUILIBRIUM IN DIATOMIC GAS - SUPERSONIC AXISYMMETRIC SHOCK WAVE AIAA PAPER 63-439 N63-21164 21-11	GRAD EQUATION N63-14387 10-11 PROFILE OF SHOCK WAVE FRONT IN ARGON AND NITROSEN
A STATE OF S	N63-15334 12-11
STRUCTURE OF SHOCK WAVES NASA-RP-24 N63-21330 21-11	PIEZOCERANIC PRESSURE TRANSDUCERS FOR SHOCK TUBE PRESSURE MEASUREMENT - SHOCK WAVE PROFILES OF REFLECTED WAVES, THICKNESS AND CURVATURE
NUMERICAL TECHNIQUES FOR SOLUTION OF COMPLETE BHATNAGAR-GROSS-KROOK KINETIC EQUATION FOR PLANE SUDGE VANCES	NASA-CR-50495 N63-18139 16-11
SHOCK WAVES NASA-CR-51234 N63-21358 22-11	SHOCK WAVE PROPAGATION NONUNIFORM RAGNETOHYDRODYNAMIC SHOCK PROPAGATION WITH REFERENCE TO CYLINDRICAL AND SPHERICAL SHOCK
GAS DYNAMICS - STRUCTURE OF STRONG SHOCK WAVES IN KROOK COLLISION EQUATION N63-21571 22-24	MAVES MRC-310 N63-14462 10-24
GAS DYNAMICS - SHOCK WAVE THICKNESS BY MONTE CARLO METHOD N63-21572 22-24	SHOCK WAVE PROPAGATION IN SOLIDS - MEASUREMENT OF TIME SCALE OF UNSTEADY MOTIONS INITIATED IN METAL SPHERICAL SHELLS BY BLAST IN SHELL INTERIOR
SHOCK WAVE STRUCTURE WITH ROTATIONAL AND VIBRATIONAL RELAXATION N63-21573 22-24	N63-16315 13-23
SHOCK WAVE EFFECTS ON GENERATION OF HIGH INFENSITY MOLECULAR BEAMS BY HOZZLES N63-21583 22-11	MEASUREMENT OF DETONATION WAVE COUPLING BETWEEN COLUMNS OF EXPLOSIVE AND ARTIFICIAL ROCKS - MOMENTUM OF SHOCK WAVES IN MATERIALS
FLOW SEPARATION, VORTEX FLOW, SHOCK WAVES AND BOUNDARY LAYERS	PROPAGATION OF SHOCK WAVES INDUCED BY UNDERGROUND
AFOSR-4854 N63-21801 22-11	EXPLOSIONS - EFFECTS OF SOIL PROPERTIES - STRUCTURAL DYNAMICS N63-16607 14-11
SPHERICAL SHOCK WAVES IN SOLIDS - INFLUENCE OF CAVITY SIZE ON OUTER BOUNDARY N63-21973 22-25	NUCLEAR WEAPONS - HUGONIOT EQUATION OF STATE FOR SHOCK MAVE PROPAGATION N63-17322 15-23
SHOCK WAVES IN SOLID CRATERS AND EFFECTS OF HIGH SPEED IMPACT OF PARTICLES ON SPACE VEHICLES N63-21979 22-33	SHOCK RELAXATION IN GASEOUS SUSPENSIONS OF SOLIO PARTICLES AND PARTICLE DRAG COEFFICIENTS CAL-90-P N63-19085 18-11
ELECTROMAGNETIC PROPERTIES OF IONIZED GAS INDUCED BY SHOCK WAVE IN SHOCK TUBE CONTAINING ARGON RADC-TOR-63-267 N63-22066 22-24	GNOME PROJECT - SHOCK WAVE PROPAGATION AND PARTICLE VELOCITY PROFILES
POWER SERIES SOLUTION FOR COMPRESSIBLE FLOW PAST	PEAK PRESSURE AT EXPLOSIVE AND BALLISTIC SHOCK
CONICAL SHOCK MAYE NYO-10432 N63-22224 23-11	INTERACTION IN THE DIRECTION OF CHARGE MOTION - PENTOLITE CHARGE BBI - 120A 20742 21-11
SHOCK WAVE INTERACTIONS AND STRONG SHOCKS - PLANE GASEOUS INTERFACE IN ELECTROMAGNETICALLY DRIVEN SHOCK TUBE	BIBLIOGRAPHY OF SHOCK WAVE PROPAGATION IN SOLIDS
SHOCK TUBE AROD-2303-4 N63-22430 23-11	SHORE DEPARTMENT ACCELERATIONS BY HYDROMAGREET SONS
PROBE POTENTIALS OF MACH 20 TO 35 SHOCK MAVES IN AIR	CF CLOTHING CF PROTECTIVE CLOTHING
AROO-2303-1 N63-22431 23-11	BASED ON FLIGHT TEST DATA
SHOCK WAVE INTERACTIONS WITH STEP LAYER OF HIGH SOUND SPEED GAS FOR INCIDENT SHOCKS OF WEAK TO	RS-TR-62-9 N63-13412 08-0
ADDERATE STRENGTH AROD-2303-2 N63-22974 23-11	HUMAN LOCOMOTIVE PERFORMANCE IN ZERO GRAVITY - NEW TYPE SHOE FOR SPACE SUIT AMRL-MEMO-P-23 N63-19093 18-1
SHOCK WAVES IN ELECTROMAGNETICALLY-DRIVEN SHOCK	SHORT SC. 1 AIRCRAFT
TUBE AROD-2303-3 N63-22975 23-11	SHORT SC. 1 AIRCRAFT VERTICAL TAKEDFF AND LANDING PLANFORM - JET THRUS AND GROUND EFFECT - SHORT SC.1 AIRCRAFT
THRUST VECTOR CONTROL BY VOLATILE LIQUID INJECTION INTO ROCKET NOZZLE - BLUNT BODY SHOCK WAVES AND	ARC-REM-3313 N63-17120 15-0

24-26 80VE 69 24-04

710N 24-04

24-23

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OF 09-11 TNG 10-11 DGEN 12-11 UBE 16-11

TON 10-24 OF TAL 13-23 N 3-23 UND 4-11 OR 5-23 ID 8-11

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1-11 05 3-23

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UST -04

SHORT SC-5 TRANSPORT AIRCRAFT	SIDESLIP AERODYMANIC CHARACTERISTICS OF CAMOPY PARAGLIDER FOR INSTRUMENT RECOVERY - MACH NUMBER, ANGLE OF
SHORT WAVE RADIATION SEQUENTIAL DETECTION IN COMMUNICATIONS SYSTEM OF SHORT TRANSMISSION TIMES	ATTACK, SIDESLIP ANGLE NASA-TH-D-1776 NASA-TH-D-1776 NASA-TH-D-1776
PIBHRI-1128-63 N63-15437 12-08	AERODYNAMICS OF JEY FLAPS - LIFT, PITCH, DOWNWASH, AND SIDESLIP
SHOWER DEVELOPMENT AND HEATING IN WAVEGUIDE STRUCTURE WITH BOO-NEV ELECTRON BEAN SLAC-3 N63-11868 04-23	AIRCRAFT STABILITY & RESPONSE - PEAK AMPLITUDES OF
ROLE OF OROGRAPHIC BARRIERS AND VERTICAL MOTION IN GENERATION AND PROPAGATION OF SHOWERS N63-16366 14-21	INERTIA CROSS-COUPLING ARC-REM-3293 SIDEMASH
DESCRIPTIONS ON NIGHT-SKY CERENKOV RADIATION IN	DOWNWASH, SIDEWASH, AND MACH NUMBER DISTRIBUTION
EXTENSIVE AIR SHOWERS N63-21982 22-28	NEAD PROBE N63-19100 18-03
EXPERIMENTAL ARRANGEMENT AND RESULTS OF OBSERVATIONS ON NIGHT-SKY CERENKOV RADIATION IN EXTENSIVE AIR SHOWERS N63-21983 22-28	SIEBEL PH-NLL AIRCRAFT LONGITUDINAL STABILITY & CONTROL OF SIEBEL PH-NLL AIRCRAFT IN GLIDING & POWERED FLIGHT
ANALYSIS AND INTERPRETATION OF OBSERVATIONS ON NIGHT-SKY CERENKOV RADIATION IN EXTENSIVE AIR SHOWERS M63-21984 22-28	NLL-TM-V-1875 N63-13692 OB-04 SIEVE SURFACTANT AND MOLECULAR SIEVE EVALUATION FOR IMPROVED DEDXYCENATION PACKET FOR CORROSION
SHROUD PROPELLERS, SHROUDED PROPELLERS, AND ROTORS WGL-3/1962 N63-20126 20-03	PREVENTION RIA-62-3441 N63-13117 07-17
SHROUDED PROPELLER TESTING STAND	SIEVERT INTEGRAL CONNECTION BETWEEN FERROELECTRIC SWITCHING AND SIEVERT INTEGRAL - SWITCHING FUNCTIONS OF LANDAUER
SHROUDED PROPELLER TESTING STAND	SIGHT ANEXE PRIZESON AND SOUND ARRADIO YOURS OF ST
JET NOISE REDUCTION USING CYLINDRICAL SHROUD ARC-REM-3320 N63-22388 23-27	CF BLINONESS HAM OF SOME THE STATE BUILDING BUILDING CF EYE COMMING HAMBOUT OF STATE OF THE STAT
SHROUDED BODY PERFORMANCE CHARACTERISTICS OF SEVERAL DIVERGENT— SHROUD AIRCRAFT EJECTORS NACA-RH-E55621A N63-12508 06-02	SIGNAL SA PSEUDORANDON SIGNAL CF BEACON CF FLARE PROBLEMS OF INFORMATION TRANSMISSION
SIBERIA CONFERENCE OF SIBERIAN TOPOGRAPHERS	FTO-TT-62-888/16264 N63-10522 01-08 ATMOSPHERIC EFFECTS ON RADIO ASTRONOMICAL SIGNALS-
JPRS-16729 , N63-10974 , 02-12	ANALYSIS OF ANTENNA TEMPERATURES DURING THUNDERSTORMS AFCRL-62-311 M63-12028 05-12
S STRUCTURAL INFLUENCE COEFFICIENT /SIC/	RANGER SPACECRAFT LUNAR SEISHOGRAPH
S RADIATION SICKNESS SHIRIN JANGTE RABBLE 2	AIR TRAFFIC CONTROL - FORECAST THROUGH 1975 -
SIDE MOMENT USE OF MATHEMATICAL MODEL TO DETERMINE EFFECT OF NONLINEAR YAM-INDUCED ROLLING AND SIDE MOMENTS ON	ELECTROMAGNETIC SPECTRUM - SIGNAL INTERFERENCE N63-12175 05-04
STABILITY OF A BONB N63-12607 06-02	RESPONSE OF AUTOMATIC PHASE CONTROL SYSTEM TO FREQUENCY MODULATED SIGNALS AND NOISE PIBMRI-1040-62 M63-12322 05-09
SIDEBAND MILLIMETER SINGLE SIDE-BAND GENERATOR MATT-167 N63-15747 12-25	ATHOSPHERICS - CALCULATION OF SIGNALS AND ANALYSIS OF WAVE PROPAGATION FTD-11-62-1193/12264 N63-12819 06-08
DOUBLE-SIDEBAND REACTIVE MIXING - SIGNAL TRANSMISSION & INTERACTION AT THREE OSCILLATING FREQUENCIES TR-134 N63-22370 23-09	DIRECTION OF VARIABLE ELECTRIC & MAGNETIC FIELDS AT AUSTIN, TEXAS & TIME PHASE RELATION FOR MARROW BAND FREQUENCIES 07-12
SIDELOBE REDUCTION ANTENNA SIDE LOBE REDUCTION - BIBLIOGRAPHY	PHYSICAL REALIZABILITY OF SIGNAL FLOW GRAPHS R-157 N63-12934 07-09
ANTENNA FOR SIDELOBE REDUCTION IN IDENTIFICATION	SYMMETRY PATTERN RECOGNITION SYSTEM II - SYSTEM
RADAR SYSTEMS RADC-TDR-63-257 N63-18053 16-08	NRL-3847 N63-13005 07-08
HORN ANTENNA WITH SUPPRESSED SIDELOBES AND EQUAL BEANWIDTH - RADIATION CHARACTERISTICS OF DUAL-MODE CONICAL HORN	RADIO LOCATION OF PLANET VENUS BY SOVIET UNION - APRIL 1961 N63-13022 07-05
NASA-CR-50625 N63-18485 17-03 SIDERITE	FREQUENCY STABILITY ON HIGH-FREQUENCY
MAGNETIC SUSCEPTIBILITY OF SIDERIYE AND OTHER	TRANSAURORAL PATH NBS-TN-165 N63-13031 07-08
BM-RI-6224 N63-15378 12-18	AMPLITUDES OF MARROW BAND SIGNAL OBSERVED IN

N63-12048 05-01

INTERACTION WITH ELECTRON BEAMS FOR MILLIMETER WAVE SIGNAL GENERATORS N63-18712 17-24 SIGNAL LOSS DUE TO ATTENUATION AND REFLECTION BY INVISCID EQUILIBRIUM PLASMA SHEATH FOR SPHERICALLY BLUNTED COMES AT HYPERSONIC SPEEDS NASA-TN-D-1778 RADIO STAR SCINTILLATIONS AND SPREAD-F ECHOES OVER SOLAR CYCLE - OBSERVATIONS OF CASSIOPEIA A N63-19098 18-05 SIGNAL ANALYSIS AND REPRESENTATION - PURE SYSTEM DESIGN USING DIRAC NOTATION OF LINEAR SYSTEM THEORY CONCEPTS AFCRL-62-909 SMALL SIGNAL PROPERTIES OF MINIATURE MICRONAVE DIODES FOR USE IN ELECTRONIC EQUIPMENT HOL-TR-1140 ANALOG DATA REDUCTION OF STOCHASTIC DATA - POMER SPECTRA, CROSS POMER SPECTRA, & RANDOM SIGNALS NLR-TN-V.1895 N63-22105 ARADAR RANGE CALCULATION JN63-22101 22-08 DOUBLE-SIDEBAND REACTIVE MIXING - SIGNAL TRANSMISSION & INTERACTION AT THREE OSCILLATING FREQUENCIES TR-134 N63-22370 23-09 SIGNAL RECEPTION CF RADIO RECEPTION SIGNAL RECEPTION CF RADIO RECEPTION BIASED SQUARE-LAW SEQUENTIAL DETECTOR IN RADAR SYSTEMS - UNRESTRICTED SIGNAL TO NO RADAR SYSTEMS - UNR						
FINE STAUCTURE OF REFEDRAGE SIGNALS RECORDED MITH HIGH SPEED RAGRETIC TAPES NO.3-14005 09-08 TH-16 SPEED RAGRETIC TAPES NO.3-14005 09-09 TH-16 SPEED RAGRETIC SPEED RAGRETIC RESIDENCE AND SPEED RAGRETIC SPEED RAGRETIC SIGNALS NO.3-15315 10-24 NO.3-15315 NO.3-15315 10-24 NO.3-		AF-100 NA	3-13423	08-08	HARMONIC GENERATION AND MIXING OF OPTICAL RG-928 N63-231	SIGNALS
MITH HIGH SPEED RAGNETIC TAPES NO3-14005 09-08 THEORY OF DOPPLER SHIFT, ABERARITON AND LIGHT DARG DEVELOPED FOR HETEROGREUS REFRACTIVE MEDIA WITH APPLICATION TO UNITTER REFLECTOR RECEIVER STSTEMS. NAM-03-50 PRECURSOR SIGNALS - PHOTIONIS MEDIASION AND ELECTRON DIFFUSION - SPECTAGERIZE CETERNHANTION NO3-14315 01-24 MAYY PROGRAM IN RADIO ASTRONOMY - PLANETARY RADIATION, RADIO STARS, MASER DEVELOPMENT, AND TO RECEIVER TECHNOLOGY MOULATION OF SPIRING COLE RELETRONOTIVE FORCE REACTOR POWER SPECTAIN ANALYZER FOR USE WITH RANDON NEUTRON FLUX LEVEL SIGNALS NO3-1520 PREFORMANCE OF FLAT-STAGGERED FILTER BANK FOR RECOVERING TONE BUST TELEMETRY SIGNALS NO3-1622 SIGNAL AMALYSIS USING ORTHOGOMAL PRUCTIONS RADIO TROUBLE TONE WITH RADIO PROGRAM TO THOSE STATION NODIATE CONVERTING SIGNAL INPUT INTO PILSE TRAINS - NAME OF MOISTING CONVERTING SIGNAL INPUT INTO PILSE TRAINS - NAME THROUGH SIGNALS IN NO REPORTED TO ANALTHOUS CREAKER ON THE STATION - NAME THROUGH SIGNALS IN NO REPORT OF THE STATION - NAME THROUGH SIGNALS IN NO REPORT OF THE STATION - NAME THROUGH SIGNALS IN NO REPORT OF THE STATION - NAME THROUGH SIGNALS IN NO REPORT OF THE STATION - NAME THROUGH SIGNALS IN NO REPORT OF THE STATION - NAME THROUGH SIGNALS IN NO REPORT OF THE STATION - NAME THROUGH SIGNALS IN SIGNAL SIGN		BETWEEN TWO SIGNALS OF SAME FREQUEN	IC Y		HIGH POWER BEAM PLASHA AMPLIFIER - TESTIL LARGE SIGNAL ANALYSIS	NG AND 09 24-2
TH-36 THEORY OF DOPPLES SHIFT, ARERARATION AND LIGHT DAGS DEVELOPED FOR HETEROGENEOUS REPRACTIVE REDIA WITH APPLICATION TO EMITTER REPLECTOR RECEIVER SYSTERS, ORA-8-3-5 ORA-8-5-5 ORA-8-5-5 ORA-8-5-5 ORA-8-5-5 ORA-8-5-5 NS-14053 ORA-8-15 ORA-8-5-15 ORA-8-15 ORA-15 ORA-16 ORA-15 ORA-			ALS RECO	RDED	PRODUCTION OF BUILDING SERVICES	- 7054
THEORY OF DOPPLES SHIFF, ABERNATION AND LIEHT DATA OF NETGROEPON REPEATED THE REDIA THE WITH SURVEY REDIA WITH SURVEY RESID AND SURVEY RESIDENCE OF THE REPLECTOR SURVEY RESIDENCE AND SURVEY RESIDENCE OF SURVEY RESIDENCE AND SURVEY RESIDE		TH-14 HA	3-14005	09-08	RADAR CLUTTER HAP FOR USE IN AIRCRAFT DE	TECTION 97 09-0
PRECUESOR SIGNALS - PHOTOIOMIZATION AND ELECTRON DIFFUSION - SPECTROMETRIC OFTERALS IN M63-14935 10-24 MAYY PROGRAM IN RADIO ASTRONOMY - PLANETARY M63-14935 10-24 MAY PROGRAM IN RADIO ASTRONOMY - PLANETARY M63-14935 10-26 MAY PROGRAM IN RADIO ASTRONOMY - PLANETARY M63-14935 10-26 BY MAGNETIC SIGNAL SWY - PLANETARY M63-14936 12-08 BY MAGNETIC SIGNAL SWY - PLANETARY M63-15296 12-08 MAGNETIC SIGNAL SWY - PLANETARY M63-15296 12-09 PREROPRES SPECTRUM ANALYZER FOR USE WITH RANOOM NEUTRON FLUX LEVEL SIGNALS M63-15296 12-09 PREROPRES SPECTRUM ANALYZER FOR SWEET FLOORY M63-16215 13-08 COMPARATION OF SPINNING COIL ELECTRONOMY FLUX LEVEL SIGNALS M63-16215 13-08 COMPARATION OF SPINNING SIGNAL STREET SIGNALS PROCESSED BY VOCCORR AND BY DIGITAL VOICE DATA PROCESSING SYSTEM - INTELLIGIBLITY TEST M63-16215 13-08 MAS-16215 13-08 COMPARATION OF SPECH SIGNALS PROCESSED BY VOCCORR AND BY DIGITAL VOICE DATA PROCESSING SYSTEM - INTELLIGIBLITY TEST M63-16215 14-03 MAGNETIC SIGNAL ANALYSIS USING ORTHOGOMAL FUNCTIONS M63-16729 14-03 MAGNETIC SIGNAL STREET SIGNAL STREET SIGNAL PROCESSING SYSTEM - M63-16218 13-08 MAS-16215 13-09 MAS-16215		DEVELOPED FOR HETEROGENEOUS REFRACT APPLICATION TO EMITTER REFLECTOR RE	CEIVER SY	STEMS	INPUT AND OUTPUT SIGNALS OF LINEAR TIME- NETWORK AND MULTIPATH IONOSPHERIC RADIO	- NA 38
DIFFUSION - SPECTROMETRIC OFTERRIBATION NAVY PROGRAM IN RADIO ASTRONOMY - PLANETARY RADIATION, ADDIO STARS, MASER OPEUPMENT, RADIO RECEIVER TECHNOLOGY M03-14737 11-05 REACTOR POWER SPECTRUM ANALYZER FOR USE WITH RANDOW MUTTON OF SPINNING COIL ELECTRONOTIVE FORCE RY MAGNETIC SIGNAL MASS PROCESSED BY VOCCORR REACTOR POWER SPECTRUM ANALYZER FOR USE WITH RANDOW MUTTON FLUX LEVEL SIGNALS M03-15559 12-09 REACTOR POWER SPECTRUM ANALYZER FOR USE WITH RANDOW MUTTON FLUX LEVEL SIGNALS M03-16721 13-08 COMPARISON OF SPECH SIGNALS PROCESSED BY VOCCORR RECOVERING TOME BURST TELEMETRY SIGNALS SIGNAL SIGNAL SIGNAL SHAND HOISE DETECTION BY COMPLEX SPATIAL FILTE RADIO TRANSPORTER SIGNAL MALYSIS USING ORTHOGONAL FUNCTIONS AND BY DIGITAL VOICE DATA PROCESSED BY VOCCORR AND BY DIGITAL VO				Mag 15		28 09-0
NAVY PROGRAM IN RADIO ASTRONORY - PLANETARY RADIO RECEIVER TECHNOLOGY NAS-14737 11-05 RECEIVER TECHNOLOGY NAS-14737 11-05 RY MACHETIC SIGNAL SHAND OF SPENING COLL ELECTRONOTIVE FORCE RY MACHETIC SIGNAL SHAND OF SPECTRUM ANALYZER FOR USE WITH NAMOOM MEUTRON FLUX LEVEL SIGNALS NO-15559 12-09 RECOVERING TONE BURST TELEMETRY SIGNALS NO-15221 13-08 COMPARISON OF SPECH SIGNALS PROCESSED BY VOCCODER AND BY DIGITAL WOICE DATA PROCESSING SYSTEM - INTELLIGIBILITY TEST NAS-16725 14-23 SIGNAL AMALYSIS USING DRINGGONAL FUNCTIONS NAS-16725 14-23 SIGNAL AMALYSIS USING DRINGGONAL FUNCTIONS NAS-16729 14-08 STATISTICAL INSTRUMENTATION STUDY - SIGNAL PROCESSING SYSTEM NAS-16729 14-08 DATA CONVERTER URILT FOR TRANSPONDER AND ENCODING AND CONVERTED URILT FOR TRANSPONDER AND ENCODING AND CONVERTED URILT FOR TRANSPONDER AND NAVE INFERENCE OF COUNTRIES OF RECEIVER FOR WEAR SIGNAL DETECTION BY FLOTS - LIGHT SOURCE CITY LIGHT BACKGROUND - VISUAL PERCEPTION RAS-2149 SIGNAL ABOVE STORM STATE OF THE STORM OF THE STO		DIFFUSION - SPECTROMETRIC DETERMINA	TION		NOISE BY ADAPTIVE FILTERS	1112
RADIATION, AND STARS, MASER DEVELOPMENT, RADIO RECEIVER TECHNOLOGY MODULATION OF SPINNING COIL ELECTROMOTIVE FORCE BY MACHITIC SIGNAL REACTOR POWER SPECTRUM ANALYZER FOR USE WITH RANDOM MEUTROM FLUX LEVEL SIGNALS MOS-15296 REACTOR POWER SPECTRUM ANALYZER FOR USE WITH RANDOM MEUTROM FLUX LEVEL SIGNALS MOS-15299 PREPOBRAMACE OF FLAT-STAGGERED FILTER BANK FOR RECOVERING TOME BURST TELEMETRY SIGNALS MOS-16221 13-08 COMPARISON OF SPECER SIGNALS PROCESSING SYSTEM - INTELLICIBLITY TEST MOS-16221 13-08 RADC-TOR-63-118 COMPARISON OF SPECER SIGNALS PROCESSING SYSTEM - INTELLICIBLITY TEST MOS-16221 13-08 RADC-TOR-63-128 SIGNAL ANALYSIS USING ORTHOGONAL FUNCTIONS RADC-TOR-63-128 SIGNAL ANALYSIS USING ORTHOGONAL FUNCTIONS RADC-TOR-63-136 NOS-10721 ANALYSIS USING ORTHOGONAL FUNCTIONS RADC-TOR-63-136 PARTHUM LIKELIHOOD RECEPTION OF FREQUENCY MODULATED SIGNAL INVUITING PULSE TRAINS - ALTITUME REASUREMENT INTERASING SIGNAL INVUITING PULSE TRAINS - ALTITUME REASUREMENT NOS-10721 PARTHUM LIKELIHOOD RECEPTION OF FREQUENCY MODULATED SIGNAL INVUITING AND REPLECTION BY PRESCRIPTION WITH ELECTRON BEARS FOR MILLIHETER WAYS SIGNAL OFFICE AND REARS FOR MILLIHETER RADIO STAR SCINTILLATIONS AND SPREAD-F ECHOES OVER SOLAL AMALYSIS AND REPRESENTATION - PURE SYSTEM PROSION USING DIRAC NOTATION OF LIREAR SYSTEM SOLAR CYCLE - OBSERVATIONS OF CASSISTEMER SYSTEM PROSION USING DIRAC NOTATION OF LIREAR SYSTEM SOLAR CYCLE - OBSERVATIONS OF CASSISTEMER SYSTEM PROSION USING DIRAC NOTATION OF LIREAR SYSTEM PROSION USING DIRAC NOTATION OF LIREAR SYSTEM SOLAR CYCLE - OBSERVATIONS OF CASSISTEMER SYSTEM PRODULATED LIREAR SHAPE SOLAR SHAPE MAS-1259 SIGNAL AMALYSIS AND REPRESENTATION - SIGNAL RASA-TR-03-2093 SIGNAL MALYSIS AND SIGNAL RADIO STAR SCINTILLATIONS AND SPREAD-F ECHOES OVER SOLAR CYCLE - OBSERVATIONS OF CASSISTEMER SYSTEM PROSION USING DIRAC NOTATION OF LIREAR SYSTEM PROSION USING DIRAC NOTATION OF LIR		NAVY PROGRAM IN RADIO ASTRONOMY - P	LANETARY		AF-103 N63-165	14 14-0
MODULATION OF SPINNING COIL ELECTROMOTIVE FORCE BY MAGHETIC SIGNAL REACTOR POWER SPECTRUM AMALYZER FOR USE WITH RANDOM NEUTRON FLUX LEVEL SIGNALS NA3-15559 12-09 PERFORMANCE OF FLAT-STAGGERD FILTER BANK FOR RECOVERING TONE BURST TELEMETRY SIGNALS NA3-16221 13-08 COMPARISON OF SPECTS LICHALS PROCESSED BY VOCCOBE AND BY DIGITAL VOICE DATA PROCESSING SYSTEM NB3-16725 14-23 SIGNAL AMALYSIS USING ORTHOGONAL FUNCTIONS RADC-TOR-03-162 RADC-TOR-03-162 RADC-TOR-03-162 RADC-TOR-03-162 RATISTICAL INSTRUMENTATION STUOV - SIGNAL PRODABALITY AMALYZER RADC-TOR-03-168 NB3-16729 14-08 DATA CONVERTED SIGNAL INPOT INTO PLASS TRAILS ALTITUDE REASUREMENT NB3-17749 RATIONAL RELECTION WITH ELECTRON BRANS FOR RILLIMETER MAY FORD MAILTY AMALYZER RADC-TOR-03-108 PLASHA WAVE PROPAGATION IN WAVEGUIDES AND WAVE INTERACTION WITH ELECTRON BRANS FOR RILLIMETER MAY FIND HITH ELECTRON BRANS FOR RILLIMETER MAY FIND WITH SIGNAL IN COMPUNICATION SYSTEMS NB3-18712 17-24 SIGNAL LOSS OUE TO ATTEMUSATION AND REPLECTION BY MASA-TN-0-1178 RADC-TOR-03-198 PLASHA WAVE PROPAGATION IN WAVEGUIDES AND WAVE INTERACTION WITH ELECTRON BRANS FOR RILLIMETER MAY SIGNAL OS OUE TO ATTEMUS STORY MASA-TN-0-1178 RADC-TOR-03-108 RADG-TOR-03-108 RADG-TOR-0		RADIATION, RADIO STARS, MASER DEVEL	OPMENT, F		SINGULAR GAUSSIAN MEASURES IN SIGNAL DET THEORY N63-171	ECTION 52 15-0
REACTOR POWER SPECTRUM ANALYZER FOR USE WITH RANDOM NEUTRON FLUX LEVEL SIGMALS NH-74783 N63-155599 12-09 PERFORMANCE OF FLAT-STAGGERED FILTER BANK FOR RECOVERING TONE BURST TELEMETRY SIGMALS COMPARISON OF SPEECH SIGMALS PROCESSED BY VOCCODER AND BY DIGITAL VOICE DATA PROCESSED BY VOCCODER RADC-TOR-63-118 SIGMAL MALAYSIS USING ORTHOGOMAL FUNCTIONS RADC-TOR-63-122 STATISTICAL INSTRUMENTATION STUDY - SIGMAL ROBABILITY ANALYZER N63-1718 DATA CONVERTER UNIT FOR TRANSPONDER AND ENCODING AND CONVERTING SIGMAL INPUT INTO PULSE TRAINS - N63-1719 PLASHA MAVE PROPAGATION IN MAVEGUIDES AND MAVE INTERACTION WITH ELECTRON BEARS FOR MILLINETER N63-17934 INFORMAL SIGNAL MAVEGUIDES AND MAVE INTERACTION WITH ELECTRON BEARS FOR MILLINETER N63-17934 INFORMAL SIGNAL MAVEGUIDES AND MAVE INTERACTION WITH ELECTRON BEARS FOR MILLINETER N63-17934 INFORMATION OF CASSIOPETA A N63-17930 N63-17934 INFORMATION OF SIGNAL SYSTEMS DESIGN USING DIRAC NOTATION OF LINEAR SYSTEM DESIGN USING DIRAC NOTATION OF MAS-10280 SIGNAL ANALYSIS AND REPRESENTATION PUME SYSTEM DESIGN USING DIRAC NOTATION OF MAS-202033 21-09 NAALA SIGNAL PROPERTIES OF MINIATUME MICROMAVE DIODES FOR USE IN ELECTRONIC EQUIPMENT DIODES FOR USE IN ELECTRONIC EQUIPMENT DIODES FOR USE IN ELECTRONIC PUMP SYSTEM DESIGN USING DIRAC NOTATION OF LINEAR SYSTEM DESIGNAL		MODULATION OF SPINNING COIL ELECTRO			WHITE GAUSSIAN NOISE - EFFECT OF INTERFE	F NON- RENCE ON
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PREFORMANCE OF FLAT-STAGGRED FILTER BANK FOR RECOVERING TONE BURST TELEMETRY SIGNALS NGS-16221 13-08 COMPARISON OF SPEECH SIGNALS PROCESSION OF VOCODER AND BY DIGITAL VOICE DATA PROCESSING SYSTEN— IN FELLIPSILITY TEST NGS-16725 SIGNAL AMALYSIS USING ORTHOGONAL FUNCTIONS NGS-16726 STATISTICAL INSTRUMENTATION STUDY - SIGNAL PROBABILITY ANALYZER NGS-17118 IS-20 DATA CONVERTER UNIT FOR TRANSPONDER AND ENCODING AND CONVERTER UNIT FOR TRANSPONDER AND ENCODING AND CONVERTING SIGNAL INPUT INTO PLISE TRAINS— ALTITUDE RESUMEMENT NGS-17749 PLASHA MAVE PROPAGATION IN NAVEGUIDES AND NAVE INTERACTION MITH ELECTRON BEARS FOR HILLINETER NGS-17934 INGS-17934 I		HH-74783 No	3-15559	12-09		DERGROUND
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RE-TR-63-1 N63-13154 07-08 ANALYSIS OF FILTERING SYSTEM CONSISTING OF SIGNAL AND FILTERS N63-14550 10-09	KINETICS OF OXIDATION OF REFRACTORY METALS AND ALLOYS BETWEEN 1000 AND 2000-DEG C - METAL CARBIDES, COPPER, NOLYBORNUM SILICIDES ASD-TDR-62-203, PT. II N63-15880 13-18
EARDR AMALYSIS IN MULTIPLE FREQUENCY SYSTEMS AND SIGNAL-TO-NOISE RATIO OF FREQUENCY-MODULATION AND	SILICIDE PROTECTIVE CONTINGS FOR TANTALUM ALLOYS ASD-TOR-63-232 N63-16455 14-16
PULSE CODE MODULATION-FREQUENCY-SHIFT SYSTEMS MBS-TM-167 N63-14967 11-08	PHASE RELATIONSHIPS OF MOLYBORMUM, MIDBIUM AND TUNGSTEN BORIDES, CARBIDES AND SILICIDES -
TELEMETRIC FILTER DESIGN - SIGNAL TO NOISE RATIO - RECOVERY OF TONE BURST TELEMETRY SIGNALS MAST-LARRE 14-09	ANNOTATED BIGLIDGRAPHY S8-69-9 M69-1807Z 18-16
BIASED SQUARE-LAW SEQUENTIAL DETECTOR IN SEARCH RADAR SYSTEMS - UNRESTRICTED SIGNAL TO NOISE RATIO	THERMOGRAVINETRIC AND ELECTRON MIGROSCOPIC STUDY OF DXIDATION OF MOLYBDENUM SILICIDES ASD-TOR-63-753, PT. 1 N63-23407 24-18
RM-3759-PR N63-19402 19-08	SILICON THURSDAY SHIPT PARK PRYCHOLD
IKORKY S-58 HELICOPTER S-58 HELICOPTER WAKE STUDIES BY PHOTOGRAPHS OF COLORED SHOKE TRAILS N63-20774 21-04	SOLID STATE CHARGED PARTICLE SILICON DETECTORS ARL-62-406 N63-10128 01-15
TARE TO THE STATE OF THE STATE	THERMAL ENERGY STORAGE FOR THERMIONIC CONVERSION ARS PAPER-2505-62 N63-10256 01-06
SA CHLOROSILANE CF HYDRIDE F SILICON COMPOUND	EFFECT OF SPACE ENVIRONMENT ON PHOTOVOLTAIC CELLS ARS PAPER-2536-62 N63-10263 01-06
EFFECT OF SILAME COUPLING AGENTS ON GLASS REINFORCED PLASTICS N63-12923 07-19	SOLAR CELL RESISTANT TO RADIATION DAMAGE - SILICON
REACTION OF ALLYLTRICHLOROSILANE WITH GLYCIOYL	P-M JUNCTION ARS PAPER-2567-62 N63-10273 01-06
NETHACRYLATE - PRODUCT POLYMERIZATION NO.1R-62-166 N63-14282 10-07	EFFECTS OF LONG TERM VACUUM ON COMMERCIAL SILICON RADIATION DETECTORS
POLYMERIZATION OF SILANE MONOMER TO SILICONE ELASTOMERS N63-15280 12-07	ARL-62-416 N63-10291 01-15 HOT ELECTRON EMITTER
HIGH TEMPERATURE IMORGANIC RESIN & ELASTOMER R&D - DEGRADATION OF ASBESTOS & MICA, SILICATE-SILAME	AFCRL-62-772 N63-10507 01-25
REACTIONS, PHENYL SUBSTITUTION N63-15414 12-07	SPECTROSCOPY OF SOLID STATE SURFACES CONTAINING ABSORBED MOLECULES, GERMANIUM, STLICOM AFCRL-62-885 02-25
POLYMERIZATION OF SILANES AND CYCLOSILANES TO POLYMERS CONTAINING SILICON-MITROGEN BONDS NASA-CR-50736 N63-19262 18-07	DIFFUSION IN SILICON - HICROCALORIMETER DESIGN - DEFECT MOBILITY IN IRRADIATED GERMANIOM AFCRL-02-708 N63-11354 03-22
ILICA FILM THICKNESS EFFECT ON SPUTTERING RATIO OF	INTEGRATION OF ENERGY STORAGE AND DISCHARGE 1210
METAL FILMS - ELECTRON BOMBARDHENT OF SILICA NASA-CR-50531 H69-18414 17-28	MECHANISMS IN BULK SILICON AND GERMANIUM FOR APPLICATION TO NEURISTOR LINES
STATIC AND DYNAMIC UNIAXIAL TENSILE STRESS ON THE	M63-11952 05-09
STEADY STATE PERMEATION OF HELIUM THROUGH MULTIPHASE, POLYCRYSTAL CERANICS & FUSED SILICA UCRL-10755 N63-18986 18-24	GASEOUS PERMEATION THROUGH GLASS, SINGLE-CRYSTAL SILICON AND GERMANIUM, AND EFFECT OF INDUCED STRESS ON PERMEATION THROUGH ALUMINA BODIES UCRL-10466 NS-11998 05-25
LICATE THE THIRD THE	SYNTHESIS OF ELASTONERS CONTAINING SILICON-
F SILICON COMPOUND F VERMICULITE	NITROGEN BONDS - SCREENING OF MONOMERS FOR POLYMERIZATION N63-12052 05-07
LIFE TESTS OF BARIUM DATHOSILICATE DISPENSER CATHODES AND METHOD FOR DISPLAYING RETARDING POTENTIAL CHARACTERISTIC	PROTON DAMAGE TO SILICON SOLAR CELLS N63-12417 06-06
AFCRL-63-11 N63-12606 06-09	SPECTROPHOTOMETRIC DETERMINATION OF SILICON IN
PIBROUS SILICON CARBIDE SYNTHESIS BY THERMAL DECOMPOSITION OF SILICATE AND SILICON COMPOUNDS	THORIUM DIOXIDE
HIGH TEMPERATURE INORGANIC RESIN & ELASTONER RED -	INVESTIGATIONS OF SURFACE PROPERTIES OF SILICON AND OTHER SERICONDUCTORS AFCIL-62-949 Na9-12643 06-25
DEGRADATION OF ASBESTOS & MICA, SILICATE-SILANE REACTIONS, PHENYL SUBSTITUTION	NETHOD FOR DISTINGUISHING HIGH ENERGY PROTONS
N63-15414 12-07	AND MESONS HAVING SAME IMPULSE, BASED ON MIP JUNCTION CHARACTERISTICS IN SILICON DIGDES
ALKALI-SILICATE DOPED ALLOYS AS BASE MATERIALS FOR TUNGSTEN-BASE SHEET ALLOYS N63-20620 20-18	Voltavoja 311 Vjortosta , More andas 30 780 2007 30
ELECTRIC PROPERTIES OF LEAD SILICATE GLASS	EFFECT OF INDION ON SOLID SOLUBILITY OF CALCIUM & SILICON IN MAGNESIUM BR-RI-8170 NAS-12719 06-18
INSULATORS AFTER HIGH ENERGY ELECTRON IRRADIATION N63-22693 23-19	COMPATIBILITY OF TYPE 302-8 STAINLESS STEEL WITH
LICTOR F SILICON COMPOUND DILLE & PRINTERED, MOSTANIEREDER.	OXIDES OF PLUTONIUM AND UNAMIUM, AND WITH SILICON
REFRACTORY MATERIALS FOR ADVANCED ROCKET ENGINE COMPONENTS	LA-2020 MEAN AND AND AND AND MAS-12993 07-18
R-3350-3 N63-12944 07-18	EFFECT OF PRESSURE ON ENERGY LEVELS OF IMPURITIES IN SEMICONDUCTORS - SILICON & GERNANIUM
HIGH TEMPERATURE ALLOYS OF BORIDE, CARBIDE, MITRIDE, AND SILICIDE	10: 44 APERAGE MATTERS AND THE HEAT 185-13346 TO 00-25
FTD-TT-62-430/162 N63-13175 07-18	EFFECT OF PRESSURE ON ARSENIC, INDIUM, & ALUMINUM

	IN SILICON	N63-13347	08-25	SEMICONDUCTORS - SILICON SOLAR CELLS & RA	MOIATION
	EFFECT OF PRESSURE ON GOLD IN S.	ILICON N63-13348	08-25	NASA-CR-50422 N63-1885	17 To Breek
	DEFORMABLE ALUMINUM ALLOYS - HO QUENCHING, INGOT CASTING, IRON,	CRACK FORM		OPTIMIZATION OF SILICON-GERMANIUM THERMOR GENERATOR FOR WATER VEHICLE POWER SOURCE TRECOM-TR-63-17 N63-1918	& dnesk
	MANGANESE, BERYLLIUN, AND MAGNE: FTD-TT-62-1272/16264		08-18	GROWTH OF BERYLLIUM OXIDE CRYSTAL FROM SI ALUMINUM, AND OTHER IMPURITIES	LICON,
	HOT CRACKING IN V95 TYPE ALUMINI RESISTANCE DURING INGOT CASTING SILICON, AND NAGNESIUM CONTENT	- MANGANESE	, IRON,	MAA-SR-8235 N63-1922	as un title
		N63-13617	08-18	SILICON PHOTOVOLTAIC CELL N63-1926	
	SILICON, GROWN-JUNCTION, DIFFUSI WITH HIGH INPUT IMPEDANCE - USE COLLECTOR AMPLIFIER CIRCUIT	IN COMMON	SISTORS	INELASTIC NUCLEAR INTERACTIONS BETWEEN HI PROTONS AND SILICON PHOTOVOLTAIC CELLS MR-21 N63-1987	0111-WE
	MRL-TDR-62-3		09-09	PROTON IRRADIATION EFFECT ON SILICON PROF	
	RECOMBINATION AND DIFFUSION PHEN SEMICONDUCTORS			AND DAMAGE DETECTION BY X-RAY DIFFRACTION AFCRL-63-312 N63-1997	
	RADIATION RESISTANT SILICON CELICONVERSION	S FOR SOLAR N63-14149		SILICON SEMICONDUCTOR PHOTON ENERGY ABSORDATA	n ranway
	IMPROVED RELIABILITY, WEIGHT AND			DS-117 N63-2028	3 20-
	SILICON CONTROLLED RECTIFIER - S WITH ZENER BLOCKING, SCR STEERIN		PS	SILICON - MEAN FREE PATH DATA DS-120 N63-2028	37 20-
	RELIABILITY OF STATIC CONVERTER CONTROLLED RECTIFIERS AND PULSEY	USING SILIC	ON	SILICON SEMICONDUCTOR MATERIAL - CONDUCTI DS-126 N63-2024	
	ALI TALLE SALE	N63-14168		SILICON SEMICONDUCTOR MATERIAL - DIELECTR CONSTANT DATA	IC A MA
	SILICON PLANAR DIODES AS UNIFORM		RATORS	DS-119 N63-2030	00 20-
	TR-1099	N63-14284	10-09	SILICON SEMICONDUCTORS - DEBYE TEMPERATUR DS-118 N63-2037	
	FORMATION OF THERMAL OXIDES OF S COATING OF SILICON DEVICES AFCRL-63-21	N63-14533	10-09	MANUFACTURING PROCESS FOR SILICON SEMICON NETWORKS	
	EFFECT OF OXYGEN IN SILICON AND			ASD-IR-7-865/VI/ N63-2100	
	TREATMENT AND RESISTIVITY DISLOCATION DAMPING, INTERNAL FR		11-19 EP.	SEMICOMOUCTOR MANUFACTURING - SILICON DIF TRANSISTOR RELIABILITY N63-2116	
	FATIGUE AND FRACTURE OF SILICON, AND ZINC OXIDE SINGLE CRYSTALS - ASD-TDR-62-431	SILICON CAL	RBIDE	SEMICONDUCTOR MANUFACTURE - SILICON DIFFU TRANSISTOR RELIABILITY N63-2116	
	ELASTOMER SYNTHESIS CONTAINING S	ILICON AND M63-14875	11-07	DAMAGE TO SILICON INDUCED BY RADIATION - CHANGES IN SEMICONDUCTOR PROPERTIES NASA-CR-51044 N63-2117	NUMBER
	QUANTITATIVE ANALYSIS OF SILICON STAINLESS STEELS BY X-RAY SPECTA EUR-203.F	OGRAPHY		GERMANIUM EPITAXIAL MESA-TRANSISTORS AND MON-PLANAR EPITAXIAL TRANSISTORS - PROGRE ENGINEERING AND RELIABILITY N63-2119	SS IN
	PLASTIC DEFORMATION THEORY FOR C MATERIALS FOR TUNGSTEN FIBER ROC COPPER-NICKEL, SILICON, ALUMINUM	EMENTED ALLE		SILICON PLANAR EPITAXIAL AND SILICON GROW DIFFUSED TRANSISTORS - RELIABILITY MEASUR AND EXPERIMENTAL EVALUATION N63-2119	EMENTS
	SEMICONDUCTOR TECHNOLOGY - SILIC	N63-15411	12-18 MTUM	SILICON PLANAR EPITAXIAL AND SILICON GROW DIFFUSED TRANSISTORS - DEVELOPMENT, RELIA	IN.
	JPRS-17351	N63-15700		MEASUREMENTS, AND EVALUATION N63-2120	0 21-
	RANGE-ENERGY RELATIONSHIPS FOR P ELECTRONS PENETRATING ALUMINUM, SILICON DIOXIDE			GRADIENTS, RADIAL STRESS, DISLOCATIONS, S PRECIPITATION N63-2123	LIP, AN
	NRL-5828	N63-17142	15-20	RELIABILITY OF SILICON PLANAR EPITAXIAL T	
	GOLD-SILICON METAL-SEMICONDUCTOR AFCRL-63-113			INPROVING PRODUCTION METHODS FOR 2N1708 S	2 22-
	SPECTROSCOPY OF MAGNESIUM, ELECT OF URANIUM OXIDE AND ELECTRON MI	CROSCOPE STU	JOY OF	PLANAR EPITAXIAL TRANSISTOR N63-2201	5 22-
	CHEMICAL BONDING OF URANIUM & AL	N63-18073	16-07	RESISTIVITY OF THIN GOLD FILMS ON SILICON SUBSTRATES & FABRICATION OF HOT ELECTRON TRIODE EMITTERS	DI ODE &
	DIRECT CURRENT SILICON CONTROLLE CONVERTER USING NONLINEAR TRANSF NASA-CR-50556		17-09	AFCRL-63-336 N63-2208 RECOMBINATION, TRAPPING & ELECTRON SPIN R	
	1400 VA AND 500/25 VA INVERTER E	ACA	No.	IN NORMAL AND IRRADIATED SILICON N63-2216	
	SILICON CONTROLLED RECTIFIERS EN	PLOYED AS		CHARGED PARTICLE RADIATION DAMAGE IN SILI	0000000
20	SSD-TDR-63-91-11 PROTON-NEUTRON DAMAGE CORRELATIO	M03-10190	18-09	GALLIUM ARSENIDE SOLAR CELLS NASA-CR-51530 N63-2235	3 23-

FAILURE MECHANISMS IN SILICON SEMICONDUCTORS RADC-TDR-63-326 N63-22547 23-09	SYSTEM KAPL-2216 N63-14710 10-19
MICROPLASMA BREAKDOWN AT STAIR-ROD DISLOCATIONS IN SILICON	FIBROUS SILICON CARBIDE SYNTHESIS BY THERMAL DECOMPOSITION OF SILICATE AND SILICON COMPOUNDS BARI-6220 N69-14745 11-19
SILICON PLANAR EPITAXIAL TRANSISTOR IMPROVEMENT N63-22571 23-09	DISLOCATION DAMPING, INTERNAL FRICTION, CREEP, FATIGUE AND FRACTURE OF SILICON, SILICON CARBIDE
ULTRAHIGH VACUUM EVAPORATOR FOR DEPOSITING ACTIVE SILICON AND/OR GERMANIUM FILMS - OPTICAL AND HALL	AND ZINC OXIDE SINGLE CRYSTALS - DEFORMATION STUDY ASD-TOR-62-431 M63-14848 11-18
G445-2 N63-22631 23-19 ULTRAHIGH VACUUM DEPOSITION OF SILICON AND/OR	DESIGN OF HIGH FREQUENCY SILICON CARBIDE SOLID STATE DEVICE FOR HIGH TEMPERATURE - SEMICONDUCTORS AFCRL-63-61 N63-14996 11-09
GERMANIUM SEMICONDUCTOR FILMS - OPTICAL STUDIES, ELECTRON DIFFRACTION, AND HALL EFFECT	MECHANICAL PROPERTIES OF CERANIC SINGLE CRYSTALS -
AXIAL STRESS FATIGUE STRENGTH IN ALUMINUM- MAGNESIUM-SILICON ALLOY NOS-22749 23-33	PELASTICITY N63-16570 16-19 HECHANICAL PROPERTIES OF CERANIC SINGLE CRYSTALS -
SILICON ALLOY TRANSISTORS - PRODUCTION ENGINEERING MEASURES TO IMPROVE RELIABILITY	SILICON CARBIDE N63-20100 20-19 SINGLE CRYSTAL GROWTH OF GALLIUM ARSENIDE AND
N63-22794 23-09 SILICON POWER TRANSISTOR THERMAL INSTABILITY - HOT	SILICON CARBIDE BY TRAVELING SOLVENT METHOD N63-20412 20-25
SPOTS & RESISTANCE SUPPRESSION RADC-TDR-63-350 N63-22821 23-09	CERAMIC SINGLE CRYSTALS - MICROMAROMESS EFFECT OF BORON ADDITIONS TO SINGLE CRYSTAL SILICON CARBIDE M63-22811 23-19
TOPOGRAPHY AND GROWTH MECHANISM OF SILICON EPITAXIAL DEPOSITION	SILICON COMPOUND ATTEMPEDIATE DESTRETATION NAMED TO
PROTON RADIATION DAMAGE TO SILICON SEMICONDUCTORS	CF SILIME CF SILICATE CF SILICATE CF SILICATE
MASA-CR-51532 N63-2289D 23-25 CHARGED PARTICLE RADIATION DAMAGE IN	CERAMICS AND REFRACTORY MATERIALS - BERYLLTUM OXIDE AND SILICOM NITRIDE JPRS-16807 N63-11207 03-18
SENICONDUCTORS - ELECTRON DAMAGE IN SILICON SOLAR CELLS NASA-CR-51533 N63-22893 23-06	ROCKET LINERS - METALLOSILOXANE COPOLYMERIC ELASTONERS
SPUTTERING IMPURE SILICON DIGXIDS FILM ONTO GALLIUM ARSENIDE WAFERS AND DIFFUSION IN FLOWING	ROC/LIN-FINAL N63-12667 G6-19 FORMATION OF THERMAL OXIDES OF SILICON AND SURFACE
HYDROGEN ATMOSPHERE - TRANSISTOR DEVELOPMENT TI-08-63-62 N63-22942 23-09	COATING OF SILICON DEVICES AFCRL-63-21 N63-14533 10-09
SILICON BORON IMPURITY SYSTEM STUDY BY NUCLEAR MAGNETIC RESONANCE N63-22970 23-25	SOLID STATE PHYSICS RED - SEMICONDUCTORS, MAGNETOELASTICITY, ACOUSTICS OF SILICON ORIDE, LASERS FOR MIGH SPEED PHOTOGRAPHY, AND ALLOYS
CHARGED PARTICLE RADIATION DAMAGE IN SHICONDUCTORS - ENERGY DEPENDENCE OF PROTON DAMAGE IN SILICON	NOLTR-62-125 N63-15802 13-25 INFRARED CONFIRMATION OF 6-FOLD COORDINATION OF
NASA-CR-51742 N63-23007 24-25	STRUCTURE /SILICON OXIDE/ - CRYSTAL STRUCTURE M63-16223 13-07
AUDIOFREQUENCY GENERATORS USING SILICON-CONTROLLED RECTIFIER INVERTERS NEL-1175 N63-23072 24-09	RANGE-ENERGY RELATIONSHIPS FOR PROTONS AND ELECTRONS PENETRATING ALUMINUM, SILICON AND
PULSED NUCLEAR RADIATION EFFECT ON PROPERTIES OF SILICON & GERMANIUM TRANSISTORS	SILICON DIOXIDE NRL-5828 M63-17142 , 15-20
N63-23419 24-09 SILICON CARBIDE	HIGH PURITY REFINING OF SILICON TETRACHLORIDE AND TRICHLOROSILANE BY RECTIFICATION METHOD JPRS-20944 N63-20902 21-07
PHYSICO-CHEMICAL INVESTIGATION OF SILICON AND BORON CARBIDES SECTION OF THE SILICON-BORON-CARBON System	IMPROVING RELIABILITY OF SILICON-ALLOY POWER TRANSISTORS Ne3-21176 21-09
JPRS-16409 N63-10578 02-07 POWDER METAL AND SILICON-CARBIDE BASE MATERIALS JPRS-16854 N63-11521 03-18	COMPOUNDS AND POLYMERS CONTAINING SILICON-NITAGEN BONDS FOR SPACE VEHICLE USE - COATINGS, HYDRAULIC FLUIDS AND IMPREGNATING RESINS FOR GASKETS
TRAVELING SOLVENT METHOD OF CRYSTAL GROWTH - SILICON CARBIDE, GALLIUM ARSENIDE, DEPOSITION AFCRL-62-503 N63-11669 04-25	MASA-CR-51374 MASA-21735 22-07 SILICON ALLOY TRANSISTORS - PRODUCTION ENGINEERING MEASURES TO IMPROVE RELIABILITY
ULTRAHIGH VACUUM HEAT TREATMENT OF SILICON CARBIDE AND EVAPORATION OF CHROMIUM ONTO CLEAN SURFACES AFCRL-62-971 N63-12670 06-25	N63-22794 23-09 SILICON FLUORIDE TRANSITION SPECTRUM OF SILICON FLUORIDE MOLECULE - MOLECULAR STRUCTURE AND SPECTRUM
PYROFIBER, FREE-STANDING, PYROGRAPHITE AND PYROCARBIDE	MRC-6701 (A 20) FEMILIARYON AND LAMES - 21744 22-29
TRAVELING SOLVENT METHOD OF SILICON CARBIDE	CF SILICONE POLYMERS WITH SILICON-MITROGEN BONDS
CRYSTAL GROWTH AFCRL-63-75 N63-14646 10-07	STUDY OF SILICON-NITROGEN POLYMERS FOR PROTECTIVE
PHASE EQUILIBRIA IN BORON CARBIDE-SILICON CARBIDE	COATING AND THERMAL SHIELDING APPLICATIONS

the teachers.	194	The state of the s	Tarana and	244
01-01 0/141-CHA N63-13646	08-07	COPPER, SILVER AND PLATINUM	N63-16705	14-11
STUDY OF SILICON-NITROGEN POLYMERS FOR PROTEC COATING AND THERMAL SHIELDING APPLICATIONS N63-13647	08-07	HIGH TEMPERATURE EQUILIBRIUM VAP INDRGAMIC MATERIALS USING MICROE ELECTRON BOMBARDMENT HEATING — S R63SD6	BALANCE AND	0.000
STUDY OF SILICON-NITROGEN POLYMERS FOR PROTEC COATING AND THERMAL SHIELDING APPLICATIONS N63-13648	08-07	INTERNAL FRICTION PEAKS IN SILVE LOW TEMPERATURE - CRYSTAL STRUCT	ER AND PLATIN	NUM AT
POLYMERS WITH SILICON-NITROGEN BONDS FOR COAT MATERIAL N63-13649	EAR.	NASA-CR-50211 INCREASING DISCHARGE CAPACITY OF	M63-17338 F SILVER ELEC	15-23 CTROOF
POLYMERS WITH SILICON-NITROGEN BONDS FOR COAT	V 12.	BY ADDING PULSES OF CHARGING CUR NRL-5912	RRENT N63-18873	18-67
POLYMERIZATION OF SILANES AND CYCLOSILANES TO POLYMERS CONTAINING SILICON-NITROGEN BONDS MASA-CR-50736 N63-19262		EMISSION SPECTRA OF IRRADIATED F GERMANIUM, SILVER, TIM AND ANTIM OF MAVELENGTH AND ELECTRON ENERG ORNL-3450	HONY AS FUNCT	PER, TION
TESTS OF POLYMERS CONTAINING SILICON & NITROG SPACE TEMPERATURES	GEN IN	DETERMINATION OF SILVER IN ALUMI ATOMIC ABSORPTION SPECTROSCOPY	INUM ALLOYS E	BY
NASA-CR-50954 N63-21050	21-07	ARL/MET-46	N63-19625	19-18
SYNTHESIS OF ELASTOMERS WITH SILICON-NITROGEN BONDING BY CROSS-LINKING N63-22519	N 23-07	SILVER ADDITION EFFECT ON AGING MAGNESIUM ALLOYS ARL/MET-49	OF ALUMINUM- N63-19908	-ZINC- 19-18
REACTIONS OF POLYMERS CONTAINING SILICON-MITA BONDS WITH POTASSIUM	ROGEN	GRAIN BOUNDARY MOTION IN SILVER	NATE AND STREET	1045-44
NASA-CR-51790 N63-22579	23-07	GRAIN BOUNDARY MOTION IN SILVER GROWTH SELECTION IN STRAINED SIN		
NASA-CR-51791 N63-22580	23-07	FUEL CELLS USING FLOODED FLOW EL OR PLATINUM SCREEN	LECTRODES OF N63-23458	SILVER 24-09
ALTERNATION OF STREET, AND ANALYSIS OF STREET, AND ADDRESS OF THE PARTY OF THE PART	23-07	SILVER ALLOY THERMODYNAMICS OF SILVER-ZINC AL		HAS .
SILICONE CF SILICON POLYMER REINFORCED HIGH-TEMPERATURE ELASTOMERS - SILI RUBBERS N63-12428	ICON 06-19	IER REPR7-63 DEVELOPMENT OF TUNGSTEN-SILVER A NOZZLES - SINTERING TECHNIQUES A		
SYNTHESIS OF SILCARBANE POLYMERS FOR HIGH TEMPERATURE RESISTANCE	57	WITH SILVER-LITHIUM ALLOYS WAL-TR-372/32-5, T-3	N63-15199	11-18
	07-07	FLOW STRESS, TRANSITION TEMPERAT BOUNDARY MARDENING OF SILVER-MAG WADD-TR-60-184, PT. IV		
	12-07			
SYNTHESIS OF HIGH TEMPERATURE ELASTOMERS OF POLYPHENYLETHER-SILOXANE BLOCK COPOLYMERS WITH REGULATED STRUCTURES N63-16181	13-07	ANNEALING RESPONSE OF INTERNALLY MAGNESIUM ALLOYS UCRL-10816	N63-20542	20-18
SYNTHESIS OF ADDITIVES TO IMPROVE HEAT STABIL OF ELASTOMERIC VULCANIZATES - SILICONE, DIENE	LITY	SILVER-CADMIUM BATTERY USE OF A SEALED SILVER CADMIUM 8 EXPLORER XII ARS PAPER-2509-62	MATTERY ON 163-10258	01-06
ELECTRICAL AND ELECTRONIC PROPERTIES OF SILICE	23.	CADMIUM-SILVER OXIDE SYSTEM FOR ARS PAPER-2564-62		01-06
DS-127 M63-20290	20-19	PERFORMANCE OF A SEALED-SILVER C		
RECENT DEVELOPMENTS IN PRODUCTION OF SILICONE POLYMERS		EXPLORER XII NASA-TH-D-1543		04-06
STLUMIN TOTAL YOUR AND THE TOTAL TO WILLIAM THE BUTYONS	22-07	SEALED CADMIUM-SILVER OXIDE BATT	TERIES N63-14153	09-06
NONFERROUS METALS - DEFORMATION STRUCTURE OF NIOBIUM, SILUMIN, TITANIUM	03-18	LONG LIFE, DEEP CYCLIC, SEALED S	ILVER-CADMIU	м
SILVER METAL CRYSTAL EVAPORATION MECHANISMS	2	ASD-TDR-63-560 SILVER OXIDE	N63-21712	22-06
N63-10750 PLASTIC DEFORMATION OF THIN SILVER BRAZED JOIN	02-18	CADMIUM-SILVER OXIDE SYSTEM FOR ARS PAPER-2564-62		01-06
IN SHEAR	07-33	REGENERABLE CARBON DIOXIDE SORPT AMRL-TDR-62-135	ION SYSTEMS N63-11686	04-16
RATES OF FREE VAPORIZATION OF SINGLE SILVER CRYSTALS AS FUNCTION OF CRYSTAL ORIENTATION, I OF FACE PREPARATION, CONTAMINATION AND TEMPER!	ATURE	DEVELOPMENT OF SEALED SILVER OXI BATTERIES ASD-TOR-62-668		ONDARY O6-06
N63-13830	09-23	SEALED CADMIUN-SILVER OXIDE BATT		Park .
EFFECTS OF SILVER ON AGING OF ALUMINUM ALLOYS ALUMINUM-COPPER, ALUMINUM-MAGNESIUM AND ALUMIN COPPER-MAGNESIUM ALLOYS	NUH-	CELL DEVELOPMENT AND TESTS OF HE	N63-14153	09-06 EALED
ARL/MET-45 M63-15732 I INTERNAL FRICTION AND DYNAMIC MODULUS OF GOLD,		ZINC-SILVER OXIDE SECONDARY BATTI APPLICATION	ERY FOR AERO	SPACE

14-18 OF DEUM 15-18

IH AT 15-23 RODE 19-07 R, ON 18-25

19-18

19-18 11-25 LVER 4-09

7-23 ET N

-18 R-

-18

-06

ON -06

-06

06

06

10-

REVIEW OF LEAD ACID, NICKEL- SILVER OXIDE SECONDARY BATTE MAINTENANCE AND DESIGN	CADMIUM, AND ZINC- RIES - OPERATION, N63-14155 09-06
CHEMICALLY-HEATED AUTOMATICA	N63-14159 09-06
ZINC-SILVER OXIDE BATTERIES APPLICATIONS	TESTED FOR AEROSPACE N63-14160 09-06
ELECTROCHENICAL SYSTEM - ZIN HONRESERVE BATTERY	IC-SILVER OXIDE N63-14161 09-06
ILVER-ZINC BATTERY	CONTRACTOR DE-IN
DEVELOPMENT OF SEALED SILVER BATTERIES	OXIDE-ZINC SECONDARY
ASD-TDR-62-668	
CELL DEVELOPMENT AND TESTS OF TING-SILVER OXIDE SECONDARY APPLICATION	BATTERY FOR AEROSPACE
REVIEW OF LEAD ACID, NICKEL- SILVER OXIDE SECONDARY BATTE	CADMIUM, AND ZINC-
ZINC-SILVER OXIDE BATTERIES APPLICATIONS	N43-14140 00-04
ELECTROCHEMICAL SYSTEM - ZEN NONRESERVE BATTERY	N63-14161 09-06
INCREASE IN CYCLE LIFE OF SI	LVER-ZINC SECONDARY
RTD-TDR-63-4029	N63-23702 24-06
INILITUDE LAW	TIAL DIFFERENTIAL
SIMILARITY SOLUTIONS OF PART EQUATIONS OF BOUNDARY LAYER MRC-375	N63-13336 08-20
NONLINEAR MODELING OF SCALE	HODEL PHYSICAL SYSTEMS
USING PARTIAL DIFFERENTIAL E RESTRICTIONS	N TANDET SHEETING SETTER SHEET
AFCRL-62-573	N63-15040 11-20
GAS DYNAMICS SIMILITUDE LAWS SONIC, AND HYPERSONIC FLOWS THEOREMS FOR FRICTIONLESS GA	ON BASIS OF INTEGRAL
OVL-240	
AEROELASTICITY - SIMILARITY MODEL FLUTTER TESTS	N63-17821 16-33
SA ANALOG SIMULATION SA ENVIRONMENT SIMULATION SA PLICHT SIMULATION SA RHEOELECTRICAL SIMULATION SA THERRAL SIMULATION CF COMPUTER GNARACTERIZATION AND SIMULAT HIGH TEMPERATURE ARC FACILITY	TION CAPABILITIES OF A
ASD-TDR-62-461	M63-10148 01-10
SPACECRAFT SIMULATION	- Signature
MH-AERO-2662-TR2	M63-10337 01-16
PENETRATION STUDIES OF SIMUL	ATED LUMAR DUST M63-10372 01-29
EARTH SATELLITE CONTROL AND MANNED SPACE ENVIRONMENT - C MRL-TDR-62-14	CONTROL SYSTEMS - COMMUNICATIONS N63-10389 01-01
SIMULATION OF MAP CORRELATIO ORBITAL WEAPON TERMINAL CORP	MARKET THE TALLER LE
THE THE SECTION SHOWS	N63-10400 01-20
CELESTIAL BACKGROUND SIMULAT	TOM TECHNIQUES N63-10401 01-20
HIGH FREQUENCY PROPAGATION S RADC-TOR-62-473	SA FLIGHT MOTTA SIGHT
SUBMICROSECOMO SIMULATION CO PART II, DESIGN, MEMORY, CIA MRL-TDR-62-27/II/	MPUTER PROGRAM -

CREW PERFORMANCE DURING SINUL ER-12693	N63-10782 02-14
SIMULATION PROBLEMS - MANNED ARS PAPER-2691-62	
SOLAR SIMULATION INSTRUMENTAT AEDC-TOR-62-191	MA3-11775 04-15
HYPERTHERMAL TUNNEL DEVELOPME	NT AND TRANSPORT
FEASIBILITY OF SIMULATING RAD	
AFCRE-62-1120 GAS DESIGNATE GATA	N63-12362 06-05
SIMPLATED FLIGHT TESTS OF ELA BOMBER AND FIGHTER HODEL COUP TIP	STIC SWEPT-WING
HACA-RH-L55J24	AT BUT TOO TE THE PART AND PART
LABORATORY SIMULATION STUDIES PHENOMENA - PLASMA DENSITY, D	OF DUTER SPACE IPOLE MAGNET N63-12616 06-24
SIMULATION OF DIPOLE FIELD WI	TH SOLENOTO 06-24
CREW PERFORMANCE ON SIMULATED IAS PAPER-63-18	LUNAR HISSION 07-14
LABORATORY SPECTRA OF THE ULT AIRGLOW - ATOMIC DXYGEN EXCIT	RAVIOLET OXYGEN NIGHT ATION MECHANISMS N63-13014 07-12
REACTIONS OF TITANIUM WITH GA OXYGEN UNDER SIMULATED SPACE	SEDUS AND LIQUID FLIGHT CONDITIONS -
IMPACT SENSITIVITY DMIC-MEMO-163	NA3-13071 07-26
SKYTOP-2 VERTICAL STATIC FIRE	NG AND ALTITUDE-
HAND STREET STORY OF THE PARTY OF THE PARTY	
HONOLULU TERMINAL RADAR SERVI ISLANDS DOMESTIC ENROUTE AREA CONTROL FACILITIES AND SIMULA	- AIR TRAFFIC
THERMAL PROPERTIES OF SIMULAT	-1-AD-2725821-1-
IN AIR AND IN VACUUM JPL-TR-32-368	AS-ABPL-EBREGS-23
PERFORMANCE OF EXPERIMENTAL A COMBUSTORS AT SIMULATED HIGH FLIGHT COMDITIONS NACA-RM-E54A15	NAULAR TURBOJET ALTITUDE SUPERSONIC N63-13863 09-26
WINIAGE CHA MOLLA MAIS - THE	124 SOA42 QBRWAN
THEORY, LANCHESTER THEORY OF NUMERICAL METHODS, SIMULATION AFCRL-63-30	COMBAT, GAME THEORY, AND MARKOV MODELS M63-13978 09-20
DESCRIPTION AND SIMULATED LIF THERNOELECTRIC GENERATOR OPER	E TESTS OF NEW TYPE LATING ON PROPANE N63-14139 09-06
ABSCHUTE LUMINOSITY, SIZE, AM LABORATOR MICROMETEORS FROM OF ARTIFICIAL METEOR	D VELOCITY OF HYPERVELOCITY IMPACT
REDUCTION IN VAPOR CARRYUNDER	10-29
BY INSERTION OF WIRE HESH	M63-14563 10-11
DEVELOPMENT OF ROCKEYSORNE IN EMPLOYING PRINCIPLES OF MOCK AFCRL-63-234	INTERFEROMETRY N63-15202 12-15
SIMULATED INTERFEROMETER FOR SPECTROMETRY WITH APPLICATION REGIONS AND TO EMISSION OR AN	FOURIER TRANSFORM TO DIVERSE SPECTRAL SORPTION LINE PROFILE
RESEARCH AND DEVELOPMENT IN F SIMULATION TECHNIQUES RELATED AIRCRAFT	

20-

0

EE-

05-

2,1M

-1-1	SH-41379 NUZ HOY A JUNEZ ZWERON BO	M63-15601 12-10	PRECISION AND CONFIDENCE RM-3242-PR N63-19067 18-20
	SIMULATION OF TILT-WING AIRCRAFT QUALITIES RE-162	N63-15725 12-10	RADIANT HEAT SOURCE FOR SIMULATED ALTITUDE
	WE-105	MB3-15125 12-10	NASA-TH-X-50221 N63-19263 18-13
	BIBLIOGRAPHY - BEHAVIORAL SCIENT TRAINING PSYCHOLOGY, ENVIRONMEN SIMULATION TECHNIQUES, AND PHYS	TAL STRESS.	LONG-TERM ACCELERATION AND CENTRIFUGE SIMULATION STUDIES ON HUMAN PERFORMANCE AND PHYSIOLOGY N63-19313 18-14
	ROCKET NOISE SIMULATION WITH SUI AND EFFECT OF VEHICLE MOTION ON ASD-TDR-62-787	BSTITUTE GAS JETS JET NOISE	SIMSCRIPT-SIMULATION MODEL FOR COMPUTER PROGRAM RM-3778-PR N63-19347 18-01
	EFFECTS OF SIMULATED BENDING AM SIZE ON LOCAL PRESSURES AND NOR	FOURTH-STAGE	ENDURANCE TESTING OF ROTORS UNDER SIMULATED CONDITIONS N63-20130 20-63
	DISTRIBUTIONS OF SCOUT VEHICLE I	N63-16427 14-02	APPLIED LOAD RATIOS TO SIMULATE ELEVATED TEMPERATURE STATIC TESTS AT ROOM TEMPERATURE NA-62H-973 N63-20170 20-33
30-9	DYNAMIC SIMULATION STUDIES OF SI EFFECTS ON SURFACE VEHICLES - ST TO IMPACT FORCES	TRUCTURAL RESPONSE	SIMULATION OF ENGINE THRUST IN WIND TUNNEL MODEL TESTS - MEASURING APPARATUS , M63-20190 20-15
	ROCKET ENGINE ABLATIVE MATERIAL POST-RUN COOLING AT SIMULATED AI NASA-YN-D-1726	TITUDE PRESSURES	SIMULATION OF ACOUSTIC EXCITATION BY MECHANICAL EXCITATION USING A SHAKER AND AN IMPEDANCE HEAD N63-20311 20-23
	ORBITING SOLAR OBSERVATORY, FIRST SATELLITES - INSTRUMENTATION MASA FACTS-B-62	ST OF STREETCAR N63-16700 14-29	RESPIRATION AT PROLONGED EXPOSURE TO HIGH ALTITUDES MITHOUT HYPOXIA IN SPACE CABIN SIMULATOR SAM-TOR-63-31 N63-20651 20-16
	CALCULATION AND SIMULATION OF NO OF GUIDED MISSILES FOR COMPONENT		TRANSIENT RADIATION SIMULATION ENVIRONMENT D2-9878-4 N63-20812 21-23
	APPROACH TO SIMULATION OF POLARI SHOCK USING ELECTRODYNAMIC SHAKE	IS MISSILE FLIGHT	ANALOG-DIGITAL COMPUTER FOR REAL-TIME SIMULATION NAVTRADEVCEN-594-1 N63-20964 21-20
	SOLAR RADIATION SIMULATION STUD	N63-16761 14-02	STATISTICAL AND PROBABILITY SIMULATION AS POSSIBLE PRINCIPLE OF CONSTRUCTING CONTROL SYSTEMS - SOVIET DATA PROCESSING N63-21096 21-20
	AEDC-TDR-63-90	N63-16780 14-28	SIMULATION OF THE EFFECT OF SOLAR WIND BOMBARDMENT
	SOLAR RADIATION SIMULATION - ENVIOLABLES VL-2244-6-0	The state of the s	ON THE LUNAR SURFACE NASA-CR-51082 N63-21111 21-29
	PONETRINE NEEDS - WILLIAM TO SEE THE TOTAL COMP. ON	PARKIN DOMESTAY	STATIC BEARING CAPACITY OF SIMULATED LUNAR
	COMPUTER SIMULATION FOR RADIO FO BACKSCATTER - COMPUTER SIMULATION AD-277582		SURFACES IN VACUUM MASA-CR-51318 N63-21733 22-17
	SPACE ENVIRONMENT SIMULATION CHA	MBER	RADIO FREQUENCY INDUCTION HEATING AS HEARS OF SIMULATING AERODYNAMIC HEATING
PS-00	INSTRUMENTATION AEDC-TDR-63-113	0A5-T1-8T-19L	WADC-TR-59-523 N63-22019 22-02
	ENVIRONMENTAL RELIABILITY TESTIF	NG BY SIMULATION N63-17294 15-10	SPACE SIMULATION EFFECTS ON THERMAL CONTROL SURFACES, ELASTOMERS, AND OPTICAL MATERIALS N63-22694 23-19
25-46 26/10/1	MANNED SPACE FLIGHT - SIMULATION FACILITIES - GEMINI AND APOLLO		V/STOL WIND TUNNEL MODEL SIMULATING TRANSITION - WING PRESSURE MEASUREMENTS IN PROPELLER SLIPSTREAM NASA-TN-0-2014 N63-22944 23-03
	DOUGLAS C-54 AS RESEARCH VEHICLE	TO SIMULATE JET	ARC HEATER FOR REENTRY SIMULATION N63-22962 23-10
	HSR-RR-62/8-MK-X	N63-17499 16-04	ALL AND THE PROPERTY OF RELEASE STREET WITH THE PROPERTY OF THE PERSON O
	COMPUTER SIMULATION OF ELECTRON IN ION PROPULSION STREAM	MIXING MECHANISM N63-17699 16-20	SIMULATION OF EARTHS ALBEDD AND RADIATION ON SATELLITE VL-2244-19-0 N63-22983 23-29
	SCALE MODEL TESTING OF 90-DEG TO	MN FJECTOR	PHOTOELECTRIC SPECTROPHOTOMETER FOR LUNAR
	SYSTEMS FOR ROCKET ENGINE SIMULATION PAPER-63-174		LUMINESCENCE SIMULATION AFCRL-63-731 N63-22986 23-23
11-01	STRUCTURE AND CHEMICAL ANALYSIS ATMOSPHERE AND IONOSPHERE BY SOU SIMULATION STUDIES		DATA TRANSMISSION SYSTEM FOR SPACE SIMULATION CHAMBER - ENGINEERING MODEL AEDC-TOR-63-231 N63-23703 24-06
	SIMULATION OF HUMAN CONTROL OF V	TOL AIRCRAFT USING N63-18068 16-09	SIMULATION FACILITY FOR THE DIGITAL IMPACT PREDICTOR - FLIGHT SAFETY REQUIREMENTS FOR BALLISTIC ROCKET FIRING
11-51	SUBGRAVITY EFFECTS AND SIMULATIC	GHT ALEST AND THE STREET	PAD-72 MINE PARTY MAN AND MAN
SI-SI	TACTICAL PROBLEMS IN DIGITAL COP RM-3244-PR	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	SA FLIGHT SIMULATOR SA ORBITAL SIMULATOR SA SPACE CABIN SIMULATOR
(9)	SIZES OF SIMULATION SAMPLES REQU CERTAIN INVENTORY CHARACTERISTIC	DIRED TO COMPUTE	SA SPACE SIMULATOR OF TEST FACILITY FIRST RESULTS WITH SIMULATION CHAMBERS

8-20

8-13 ION 8-14 M .8-01 0-03

0-33 EL 0-15

L D 0-23

ATON 0-16

1-23 ON 1-26

TALE VIET 1-20 MENT 1-29

2-17

2-02

1-19

EAM 1-03

-10

-29

-23

-10 からた神

NGL PAPER-57 N63-10052 01-16	AFCRL-62-362 TEVES & LOWIZ MUIESMA N63-11034 28 43-25
IMULATOR STUDY OF AN ACTIVE CONTROL SYSTEM FOR A PINNING BODY AGE-TW-0-1515 N63-11122 03-30	HIGH-TEMPERATURE GROWTH MECHANISM OF SINGLE CRYSTALS OF METAL OXIDES AFCRL-62-771 N63-11183 03-25
ALL SAND, WAIT - SEA	不是特别不是是一种。这个可能是不是这个人的,但是不是一种的人的,但是不是一种的。
FACILITIES FOR SPACE ENVIRONMENT SIMULATION - HIGH TEMPERATURE, ACOUSTICS, VIBRATION, RADIATION, HIGH VACUUM	ELASTIC PROPERTIES OF SINGLE CRYSTAL MAGNESIA AROD-2891-4 N63-11282 03-18
ARTC-30 N63-11182 03-10	INFLUENCE OF CARBON CONTENT AND SUBSTRUCTURE ON CLEAVAGE IN 1RON SINGLE CRYSTALS
COMFINEMENT STUDY OF A MINIMUM SIZE SPACE CABIN SIMULATOR FOR THE LUNAR MISSION	ASD-TR-61-686, PT. I N63-11446 03-18
ARS PAPER-2644-62 N63-11261 03-16	DISLOCATION MOBILITY IN ZING SINGLE CRYSTALS N63-11599 04-18
STAR SIMULATOR FOR REPRODUCTION OF BLACK-BODY RADIATION SPECTRUM AFOSK/DRA-62-22 N63-11489 03-28	ANALYSIS OF FATIGUE PROCESS IN SINGLE CRYSTAL'S OF IRON AND ZINC N63-11912 04-18
AMES ATMOSPHERE ENTRY SIMULATOR AND ITS USE IN DETERMINING CHARACTERISTICS OF ETHYL CELLULOSE AS ABLATIVE MEAT SHIELD FOR BALLISTIC MISSILES NASA-TM-X-394 N63-12562 06-10	GASEOUS PERMEATION THROUGH GLASS, SINGLE-CRYSTAL SILICON AND GERMANIUM, AND EFFECT OF INDUCED STRESS ON PERMEATION THROUGH ALUMINA BODIES UCRL-10466 N63-11998 05-25
INVESTIGATION AND EVALUATION OF MATHEMATICAL METHODS USED IN UNIVERSAL DIGITAL OPERATIONAL FLIGHT TRAINER TOOL/UDDFTT NAVTRADE/CEM-639-2 N63-15328 12-20	GROWTH OF SINGLE CRYSTALS OF LEAD, CADMIUM AND BISMUTH USING BRIDGMAN METHOD IS-542 N63-12477 06-18
SIMULATOR STUDY OF LATERAL-DIRECTIONAL MANDLING QUALITIES OF PROPELLER STOL TRANSPORT ATRPLANE	CIRCULAR POLARIZATION OF HIGH ENERGY GAMMA RAY BEAMS BY BIREFRINGENT SINGLE CRYSTALS LNF-62-84 N63-12613 06-25
NASA-TN-D-1773 M63-15526 12-04	NONELASTIC STRAIN RECOVERY IN ZINC SINGLE CRYSTALS
HOVING-COCKPIT-SIMULATOR STUDY OF PILOT PERFORMANCE DURING REENTRY AT PARABOLIC VELOCITY NASA-TN-D-1797 N63-15562 12-10	N63-12615 06-18 EXPERIMENTAL TECHNIQUES FOR PREPARING METAL OR
HANDLING QUALITIES OF SUPERSONIC TRANSPORTS IN	SEMICONDUCTOR SURFACES FOR USE IN ADSORPTION STUDIES N63-12675 D6-25
HIGH SPEED CRUISING FLIGHT USING PILOTED SIMULATORS NASA-TN-0-1888 N63-15563 12-10	ADSORPTION AND EXCHANGE ON METAL SINGLE CRYSTALS AROD-3156-1 N63-12802 06-07
MODEL-CONTROLLED METHOD FOR VARIABLE STABILITY AIRCRAFT DEVELOPMENT - COMPLEX MOTION EQUATION SIMULATION - VARIABLE STABILITY HELICOPTER DESIGN AGARD-402 N63-19110 18-04	FLOW AND FRACTURE OF ZOME REFIMED TUNGSTEN — DEFORMATION MODES OF TUNGSTEN SINGLE CRYSTALS — INDUCTION-TYPE ZOME-MELTER APPARATUS Q-81973-1 M63-13054 07-18
MULTIMAN-MACHINE SIMULATOR, INFORMATION-PROCESSING AND DECISION-MAKING TASKS RESEARCH AMRL-TOR-63-48 N63-19739 19-10	THERMAL EXPANSION OF ALPHA-ZIRCONIUM SINGLE CRYSTALS - ANISOTROPIC STRUCTURE ANL-6591
OBSERVATIONS ON FLIGHT CONTROL, UNSTABLE AIRCRAFT, SIMULATORS AND FLIGHT MOTIONS IN STALL CONDITION - STABILITY AND CONTROL N63-20847 21-04	X-RAY PRODUCED VANADIUM IONS FROM VANADYL IONS IN SINGLE CRYSTALS OF ZINC AMMONIUM SULFATE M69-13123 07-23
SIMULATOR STUDY OF AEROSPACE REQUIREMENTS FOR SUPERSONIC TRANSPORT NASA-TN-0-1964 N63-20890 21-04	STRUCTURE OF TELLURIUM SINGLE CRYSTALS STUDIED BY ELECTRON TRANSPORT METHODS - VALENCE AND CONDUCTION BANDS - N63-13278 07-25
SDLAR AND SPACE SIMULATOR FACILITY - MARINER 3 SPACECRAFT NASA-CR-50997 N63-21120 21-17	ISOTROPIC ELASTIC MODULUS OF MAGNESIUM OXIDE AT THEORETICAL DENSITY AROD-2891-5 N63-13437 08-33
COMPOSITION PRODUCT SIMULATOR - PLASMA PHYSICS NATT-199 21-24	MAGNETORESISTANCE AND HALL EFFECT IN ALUMINUM SINGLE CRYSTALS AFOSR-951 M63-13547 08-25
ENERGY-STORAGE HYDRAULIC SYSTEMS FOR VIBRATION	STRUME AND DIGHT PROPERTURE. FREIGHT THEF
SIMULATION NASA-CR-51737 WORM JESTING HELF N63-23044 24-06	CRYSTALLOGRAPHY - HIGH PURITY SINGLE-CRYSTAL BORON PREPARATION BY CHEMICAL VAPOR PLATING AND X-RAY DIFFRACTION IMSPECTION
VISUAL PRESENTATION SIMULATOR FOR STUDY OF	ASD-TDR-62-427 N63-13755 08-07
VARIOUS PHASES OF LUNAR FLIGHT N63-23214 24-32	RATES OF FREE VAPORIZATION OF SINGLE SILVER CRYSTALS AS FUNCTION OF CRYSTAL ORIENTATION, MODE
GEMINI GUIDANCE & CONTROL SIMULATION FOR SPACE RENDEZVOUS MANEUVER N63-23219 24-22	OF FACE PREPARATION, CONTAMINATION AND TEMPERATURE
WE SERIES DUAL SERIES RELATIONS FOR FOURIER-BESSEL, DINI, SINE, COSINE, LEGENDRE FUNCTION, AND JACOBI DIVENNELS SERVED.	STUDY OF SINGLE-CRYSTAL MAGNESIUM OXIDE AT ELEVATED TEMPERATURES - STRUCTURAL CHANGE C-13 N63-13976 09-23
POLYNOMIAL SERIES PSR-13/1 N63-15221 11-20	RECOMBINATION AND DIFFUSION PHENOMENA IN SILICON SEMICONDUCTORS N63-14063 09-29
GLE CRYSTAL ACTIVATION MECHANISM OF CADMIUM SULFIDE SINGLE	ELECTROLUMINESCENCE OF CADMIUM SULFIDE SINGLE CRYSTALS - ELECTRIC CONDUCTION, EMISSION AND
CRYSTALS IN THE PRESENCE OF LOCAL X-IRRADIATION FTO-TT-62-885/16264 N63-10348 01-25	EXCITATION NECHANISMS N63-14111 09-23

FISSION-FRAGMENT INDUCED EXPANSION IN SINGLE
CRYSTAL ALUMINUM OXIDE
8MI-1646 N63-21679 22-18

STRESS-STRAIN ANALYSIS OF SINGLE CUBIC CRYSTALS AROD-3560-1 N63-21850 22-25

N63-21679 22-18

PRESTRAINED MAGNESIUM SINGLE CRYSTALS N63-14204 09-18	STEEL SINGLE CRYSTALS N63-17900 16-18
NARROW LINE PARAMAGNETIC RESONANCE ABSORPTION	SPINEL SINGLE CRYSTALS - CRYSTAL GROWTH AND STRUCTURE DEFECTS
SPECTRUM IN IRRADIATED CALCITE SINGLE CRYSTALS ARF-A1216-7 N63-14831 11-25	ASD-TDR-62-1086 N63-18028 16-18
DISLOCATION DAMPING, INTERNAL FRICTION, CREEP, FATIGUE AND FRACTURE OF SILICON, SILICON CARBIDE	ULTRAVIOLET ABSORPTION SPECTRUM OF POTASSIUM CHLORIDE/POTASSIUM BROMIDE SINGLE CRYSTALS AND THIN LAYERS
AND ZINC OXIDE SINGLE CRYSTALS - DEFORMATION STUDY ASD-TDR-62-431 N63-14848 11-18	NASA-CR-403 N63-18063 16-25
SOLID STATE CIRCUIT PROGRESS - DESIGN OF	INTERACTION OF IMPURITY ATOMS AND DISLOCATIONS IN REFRACTORY METALS - MOLYBDENUM SINGLE CRYSTAL -
APPARATUS, LINE WIDTH AND ANISOTROPY MEASUREMENTS OF SINGLE-CRYSTAL FERRITE	STRAIN AGING AND TENSILE CREEP ASD-TDR-63-238 N63-18079 16-18
RADC-TDR-63-83 N63-15683 12-09	ULTRASONIC INSPECTION - ALUMINUM AND SODIUM
ULTRASONIC METHODS FOR STUDYING FATIGUE AND DEFORMATION IN SINGLE CRYSTALS OF ALUMINUM AND	CHLORIDE SINGLE CRYSTAL DEFORMATION AND STRESS CYCLING - DEFECT FORMATION
SODIUM CHLORIDE - STRUCTURAL DEFECTS ASD-TDR-62-186 N63-15806 13-33	
ANTIFERROMAGNETIC BEHAVIOR IN SINGLE CRYSTALS AT LOW TEMPERATURE N63-15851 13-25	
SELF-DIFFUSION AND DIFFUSION OF RHENIUM TRACER IN	MASA-CR-50402 N63-18399 17-25
SINGLE-CRYSTAL TUNGSTEN LA-2880 N63-15929 13-25	IONIC CONDUCTION OF POTASSIUM CHLORIDE-POTASSIUM BROMIDE MIXED SINGLE CRYSTALS AS FUNCTION OF COMPOSITION AND HEAT TREATMENT OF SAMPLES
OPTICAL AND ELECTRICAL PROPERTIES OF SINGLE CRYSTAL TELLURIUM - EFFECT OF LATTICE DISLOCATIONS	MIT-TR-180 N63-18875 18-25
AND DOPING - ENERGY BAND STRUCTURE AFOSR-2648 13-25	FATIGUE MECHANISMS IN SINGLE CRYSTAL AND POLYCRYSTALLINE ALUMINUM - ELECTRON MICROSCOPY
DELAYED FAILURE OF POLYCRYSTALLINE AND SINGLE	N63-19012 18-18
CRYSTAL ALUMINA - SAPPHIRE N63-16396 14-33	MATERIALS HAVING SINGLE CRYSTAL STRUCTURE - RARE
MECHANICAL PROPERTIES OF CERAMIC SINGLE CRYSTALS - BORON DOPED SILICON CARBIDE CRYSTAL STRENGTH AND ELASTICITY N63-16579 14-19	N63-19415 19-23
THEORY OF DISLOCATION HYSTERESIS WITH APPLICATION	X-RAY BACK-REFLECTION DIVERGENT BEAM STRAIN ANALYSES OF TANTALUM AND TUNGSTEN SINGLE CRYSTALS
TO DAMPING MEASUREMENTS IN MAGNESIUM SINGLE CRYSTALS N63-16704 14-18	
SINGLE-CRYSTAL TUNGSTEN THERMIONIC CONVERTER AFCRL-63-452 N63-16736 14-06	RELATIONSHIP OF MECHANICAL PROPERTIES OF SINGLE CRYSTALS OF BODY CENTERED CUBIC METALS AND DISLOCATION STRUCTURES BY ELECTRON MICROSCOPY N63-19661 19-18
HIGH PURITY BERYLLIUM - ZONE REFINING, SINGLE CRYSTAL STUDIES, POLYCRYSTALLINE STUDIES, ELECTRON	A CONTRACTOR OF THE PROPERTY O
TRANSMISSION MICROSCOPY AND SELF-DIFFUSION	ALUMINUM AND ALUMINUM ALLOYS N63-19713 19-18
RELATIONSHIP OF TWINNING TO BRITTLE FRACTURING IN	CHROMIUM-SI NUCLEAR ORIENTATION IN CERIUM MAGNESIUM NITRATE SINGLE CRYSTALS
REFRACTORY METALS, SINGLE AND POLYCRYSTALLINE	N63-19810 19-25
ASD-TDR-63-360 N63-16904 14-18	MECHANICAL PROPERTIES OF CERAMIC SINGLE CRYSTALS - SILICON CARBIDE N63-20100 20-19
ELECTRON TRANSPORT COEFFICIENTS - EFFECT IN SINGLE CRYSTAL BISMUTH AT LIQUID HELIUM	SINGLE CRYSTAL GROWTH OF GALLIUM ARSENIDE AND
TEMPERATURES AROD-1579-12 N63-17017 15-25	SILICON CARBIDE BY TRAVELING SOLVENT METHOD AFCRL-63-314 R03-20412 20-25
PHOTOELECTRIC WORK FUNCTION AND OXYGEN ADSORPTION	QUENCHED ALUMINUM SINGLE CRYSTAL DISLOCATION
PROPERTIES OF NIOBIUM SINGLE CRYSTALS AFCRL-62-949/SUPPL-/ N63-17083 15-25	SUBSTRUCTURE UCRL-10793 N63-20707 21-25
ELECTRON SPIN RESONANCE STUDY OF PARTIALLY REDUCED	
VANADIUM PENTOXIDE SINGLE CRYSTALS N63-17263 15-18	
SINGLE CRYSTAL COMDUCTIVITY - ELECTRIC AND MAGNETIC PROPERTIES FOR TUNGSTEN BRONZE AND	GRAIN BOUNDARY MOTION IN SILVER BICRYSTALS AND GROWTH SELECTION IN STRAINED SINGLE CRYSTALS N63-20939 21-25
RUBIDIUM TUNGSTEN BRONZE N63-17264 15-18	
SINTERING AND SINGLE CRYSTAL PRODUCTION OF ALUMINUM OXIDE AND MAGNESIUM OXIDE POWDERS - SOLID	CRYSTALS
STATE REACTIONS ASD-TDR-62-732 N63-17304 15-18	STEADY STATE THERNAL GRADIENT FOR GROWTH OF
AQUEOUS CORROSION OF ZIRCONIUM SINGLE CRYSTALS	BERYLLIUM OXIDE SINGLE CRYSTALS IN A MOLTEN FLUX N63-21210 21-25
KAPL-2257 N63-17515 16-07	And the same of th

RADIATION EFFECTS ON INSULATORS - POSITRON
ANNIHILATION IN SOLIDS - IONIZATION OF ANTHRACEME
CRYSTALS BY X-RAYS MEASURED BY POLARIZATION METHOD
M63-17654 16-17

MECHANICAL PROPERTIES OF AUSTENITIC STAINLESS

16-18

16-18
16-23
15 IN
16-18
S
17-25
IDE
17-25

18-25 Y 18-18 : URE

ALS 9-18 E 9-18

9-25 LS -0-19

)-25

-25 -19

-25 LE

-25

X -25

-18

-25

PHOTOCONDUCTIVITY AND NOISE IN SINGLE CRYSTAL TELLURIUM N63-22074 22-09	JPRS-16841 270% POSTABORS 26 N63-11338 00 03-18
HIGH TEMPERATURE SINGLE CRYSTAL OBSERVATION OF	PLUTONIUM OXIDE - URANIUM OXIDE TESTS HN-71232 N63-12007 05-07
ORIENTATION RELATIONSHIP IN ZIRCONIA PHASE TRANSFORMATION ATH-64/9236/-3 N63-22133 22-25	PRODUCTION AND PROPERTIES OF SEMIFINISHED TANTALUM JPRS-17296 N63-12134 05-18
SURFACE ENERGY STATES OF SINGLE CRYSTAL METALS BY 10N BEAM SCATTERING & CONTACT POTENTIAL AAL-63-139 N63-22242 23-25	ZONE REFINING OF CEMENTED TUNGSTEN-BASE ALLOYS - PLASTIC DEFORMATION THEORY MAL-TR-372/32-3-T1
ELECTRON PARAMAGNETIC RESONANCE OF INPURITY IONS IN CRYSTAL LATTICES - THEORY, EXPERIMENT, SINGLE CRYSTAL PREPARATION, AND SULFUR MONOXIDE STUDY ARL-63-126	PROCESSING EFFECTS ON THE STRENGTH AND MICAD- STRUCTURE OF CERANICS MADE FROM PRESSED SINTERABLE MAGNESIA POWDERS ASD-TDR-62-700 M63-12406. 06-19
PURIFICATION OF STARTING MATERIAL FOR POTASSIUM CHLORIDE SINGLE CRYSTALS, PROBLEMS OF RECONTAMINATION & VERIFICATION OF PURITY	FLUOSILICATE SINTERING PROCESS FOR RECOVERY OF BERYLLIUM FROM BERYL-SPODUMENE CONCENTRATE M69-12431 7 06-07
BIBLIOGRAPHY - EPITAXIAL GROWTH OF SINGLE CRYSTALS LRSC-SB-63-32 N63-22576 23-07	THERMOCONDUCTIVITY OF IRRADIATED & NOMIRRADIATED. SINTERED & NONSINTERED URANIUM OXIDE RELATED TO CRYSTALLINE STRUCTURE
CERAMIC SINGLE CRYSTALS - MICROHARDNESS EFFECT OF	HW-69945 12 22 22 22 22 22 22 22 22 22 22 22 22
BORGN ADDITIONS TO SINGLE CRYSTAL SILICON CARBIDE N63-22811 23-19	FISSION SINTERING OF BORIDE POWDERS BY REACTOR RADIATION GEAP-3743 N63-13201 07-23
PLASTIC DEFORMATION OF URANIUM CARBIDE CRYSTALS — FLOW BEHAVIOR OF URANIUM CARBIDE SINGLE CRYSTALS AT HIGH TEMPERATURES UNDER COMPRESSION LOADING MAA-SR-810B N63-22816 23-19	ACTIVATED SINTERING OF TUNGSTEN N63-14670 10-18
SELF-DIFFUSION IN ANTHRACENE SINGLE CRYSTALS BY	ACTIVATED SINTERING AND DENSIFICATION OF TUNGSTEN WITH TRANSITION ELEMENTS N63-14671 10-18
AADIOACTIVE TRACERS 82130-T-1 N63-23078 24-07	GRAIN BOUNDARY DIFFUSION IN TUNGSTEN SINTERING - IRIDIUM DECELERATION OF INTERFACIAL DIFFUSION
GROWING SODIUM IODIDE—THALLIUM ACTIVATED SCINTILLATION SINGLE CRYSTALS AEET—TP—3 N63—23148 24—23	N63-14672 / 10-18 /
ROLE OF PHOSPHOROUS IN GROWTH OF BERYLLIA SINGLE	TUNGSTEN, IRON & COBALT - TRANSITION ELEMENTS (COMPARED N63-14673 10-18
CRYSTALS - CRYSTAL HABIT MODIFICATION & PHOSPHATE CONCENTRATION, TEMPERATURE & FLUX COMPOSITION MAA-SR-0361 N63-23525 24-19	LIQUID PHASE AND ACTIVATED SINTERING OF TUNGSTEN - INFLUENCE OF ALLOYS - CARRIER PHASE SINTERING N63-14674 10-18
SOLID STATE PHYSICS - GROWTH OF SINGLE CRYSTALS & CRYSTAL FILMS, MAGNETIZATION & LATTICE ELASTIC PROPERTIES, NEUTRON DIFFRACTION, & INTERMETALLICS NOLTR-63-151 N63-23590 24-25	DEVELOPMENT OF TUNGSTEN-SILVER ALLOYS FOR ROCKET - NOZZLES - SINTERING TECHNIQUES AND IMPREGNATION MITH SILVER-LITHIUM ALLOYS MAL-TR-3722-5, T-3
ROLE OF BORDN IN GROWTH OF BERYLLIUM OXIDE SINGLE CRYSTALS NAB-58-0403 N63-23648 24-19	PHYSICAL PROPERTIES OF CERAMIC POWDER RELATED TO
SINGLE INTERCEPTOR SATELLITE /SIS/	ASD-TDR-62-643 N63-16046 13-19
CF INTERCEPTOR CHA CHA SHAROLIA UN OFFICIAL STAROLISM ME	SINTERING AND SINGLE CRYSTAL PRODUCTION OF ALUMINUM OXIDE AND MAGNESIUM OXIDE POMDERS - SOLIO . STATE REACTIONS
LUMAR ESCAPE BY SINGLE-STAGE ROCKET OF CONSTANT THRUST MASA-TM-X-50816 MASA-22173 23-29	ASD-TDR-62-732 N63-17304 15-16 VACUUM FURNACE FOR SINTERING CARBIDES AND OXIDES
SINGULAR INTEGRAL EQUATION	AERE-N-963 2317 29309 317 243308 4 M63-17301 15-10
REAL VALUED SOLUTIONS TO A CLASS OF SINGULAR INTEGRAL EQUATIONS	SINTERED POWERED ALUMINUM ALLOYS - RESIDUAL GAS REMOVAL AND HIGH TEMPERATURE, FATIGUE, CREEP RESISTANCE
MRC-278 N63-14459 10-20	RESISTANCE 803-17561 26-18
HYDROMAGNETIC WAVE PROPAGATION IN CONSTANT DIPOLE MAGNETIC FIELD PIBMRI-1175-63 N63-23578 24-09	HIGH TEMPERATURE CREEP RUPTURE CHARACTERISTICS OF UNALLOYED HOLYDDENNIH FOREINGS PRODUCED PROBA RECASS AND PRESSED-AND-SINTERED MATERIALS
S WEAT SINKERS WASSHICKERS - BALLIES METATRAS	11-16 19-50-01-16-17-1 10-33
S HEAT SINK SINTERING CF POWDER METALLURGY	MICROSTRUCTURE OF SINTERED ALUMINA ALUMINUM ALLOY BY TRANSMISSION ELECTRON MICROSCOPY ASD-TOR-63-343, PT. I 33048 863-19777 19-18
ELECTRON BEAM WELDING OF SINTERED ALUMINIUM EUR-39.E N63-10774 02-17	PRESINTERING STUDY USING DEVITRIFICATION TECHNIQUE FOR CERANICS & SINTERING STUDIES OF ALUMINUM
EFFECT OF TUNGSTEN POWDERS ON PLASMA SPRAYED AND SINTERED STRUCTURES M63-10963 02-18	OXIDE
THEORY OF COMPACTING METAL POWDERS - POWDER METALLURGY, ELASTICITY, SINTERING JPRS-16573 02-18	STHUSGIO PRESSURE AND TURBULENT HEAT TRANSFER ASSOCIATED WITH SINUSGIDAL PROTUBERANCES ON FLAT PLATE MASA-TN-D-1626 N63-19930 09-1:

SINTERING NICELUM POWDER STONE AND THE THE ARBEIT

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RANDOM-SINUSDIDAL VIBRATION	N63-16092		FLOW NASA-TR-R-123	N63-13105	07-02
STATIC DC TO SINUSDIDAL AC CON- NASA-CR-50938 SIREN	N63-21048		WIND TUNNEL TEST RESULTS ON BASE PRESSURE, PRESSURE DIS	TRIBUTIONS, SKIN	DRAG.
UNIVERSITY OF SOUTHAMPTON RANDO		LITY -	FRICTION DRAG, LIFT AND PIT	N63-13509	08-02
PHYSICS, NOISE, VIBRATION ASD-TDR-63-91	N63-14055	09-10	INTEGRAL MOMENTUM EQUATION FRICTION & BOUNDARY LAYER T		HAR
SONIC FATIGUE FACILITY - SIREN SPECTRA, AND EXPERIMENT PLANS			FLOW AT LEADING EDGE OF FLA	T PLATE N63-14071	09-11
ASD-TDR-63-674	N63-22486	20824	THEORIES OF COMPRESSIBLE TU SKIN FRICTION WITH ZERO PRE		
S LAUNCH SITE			EXPERIMENTAL RESULTS NASA-TN-D-1795	N63-14278	10-11
S DROP SIZE			FLAT PLATE SKIN FRICTION IN		RSONIC
S PARTICLE SIZE			FLOW ARL-63-24	N63-15697	12-11
KELETON CF BONE HEAD INJURY AND SKELETAL RESEAR			RAREFIED GAS DYNAMICS - FIR ON SKIN FRICTION AND HEAT T		ECTS
	N63-12861	07-16	FLOW OF REACTING GAS		22-11
SKID LANDING STABILITY ANALYSIS OF SKID-ROCK SPACECRAFT	KET LANDINGS	OF	COMPARISON OF METHODS FOR E OF TURBULENT BOUNDARY LAYER FLUID DYNAMICS TRECOM-TR-63-35	WITH TRANSPIRATI	ON -
NASA-TH-D-1625 SKID LANDING OF SPACECRAFT HODI	N63-15302	12-30	SKIN FRICTION TRANSDUCER FO		WO IN S
NASA-TN-D-1624	N63-15305	12-30	SHOCK TUNNEL CAL-129		23-15
TRICYCLE SKID-TYPE LANDING GEAR OF MOTION FOR X-15 VEHICLE SLIC NASA-TN-D-1828	N63-16298	S 13-30	VELOCITY AND TEMPERATURE PR FRICTION IN SUPERSONIC TURE FLOW - ANNOTATED BIBLIOGRAP	OFILES AND SKIN ULENT COMPRESSIBL	SPLF
KIMMER ANALYSIS OF SKIMMER FOR HIGH IN			SRB-63-1 TAVITA RULLIANT		
BEAM USING THREE-FLUID MODEL RM-214	N63-12346	05-11	SKIN GRAFT DIFFERENTIAL RADIOSENSITIVE SET RESPONSES TO ALLOGENIC	TY OF FIRST AND S	ECOND
KIN CF AIRFRANE			GRAFTS IN LETHALLY IRRADIAT USNROL-TR-619		09-16
CF STRUCTURAL MATERIAL AMISOTROPY OF THE SKIN IN RESPE CONDUCTIVITY	ECT TO THERMO	1881	DIFFERENTIAL EFFECT OF SPEC REJECTION OF ALLOGENIC AND	IFIC ANTISERA ON XENOGENIC SKIN GO	-AAP
RAE-TRANS-1011	N63-10467	01-16	BY X-IRRADIATED MICE USNRDL-TR-625		10-16
ABSOLUTE IDENTIFICATION OF CUTA VARYING IN BOTH INTENSITY LEVEL CARI-62-16			RESPONSE OF IRRADIATED AND SENSITIZED BY VARIOUS MEANS		
CAPSULAR METHOD FOR MEASURING S		BL000	XENOGENIC SKIN GRAFTS USNRDL-TR-628	N63-15068	11-16
FLOW IN SMALL SKIN AREA AMRL-TDR-63-16	N63-15355	12-16	DIFFERENTIAL RADIOSENSITIVI		
HYPOTHALAMIC TEMPERATURES IN DO THERMOREGULATORY RESPONSES TO E FACTORS	GS AND HONKE		SET RESPONSES TO ALLOGENIC GRAFTS IN SUBLETHALLY IRRAD USNROL-TR-636		
AMRL-TDR-63-5	N63-15646	12-16	LIMITED ROLE OF ADULT THYMU HOMOGRAFT RESPONSE IN IRRAD		U RUSSI LI RASSI A CAM
SKIN TAPER AND AEROELASTIC PROP ARC-CP-642			USNRDL-TR-661	N63-22502	4,0000
BURN STUDIES ON RABBITS - INTER	SITY, AREA,	& DEPTH	HOMOGRAFT TOLERANCE IN SUBL ADULT HICE	SROITAGES LAND	атипа
OF BURN IN SKIN BURN MODEL JPRS-20950	N63-21448	22-16	USNRDL-TR-668		
KIN FRICTION MEASUREMENT OF TURBULENT SKIN-F			A GALVANIC SKIN RESPONSE SO INSTRUMENT	LID STATE HEASURE	
PRESTON TUBE	N63-10064	01-11	AMRL-TDR-62-117	N63-11359	03-14
IMPACT PROBE METHOD TO MEASURE IN TURBULENT BOUNDARY LAYER OVE	LOCAL SKIN F	RICTION	RADIATION MEDICINE - CHEMOT AND VISUAL ANALYZERS, SPLEE BLOOD AND BONE MARROW STUDY	N HOMOTRANSPLANTA	TION,
NUMBERS & PRESSURE GRADIENTS DRL-498	N63-12165	05-17	JPRS-17402	N63-12391	SELEC
			EARLY CHANGES IN SKIN CHRON	AVV AND UTCHAL	-9U30
STUDIES OF VELOCITY PROFILE, SK TRANSFER CHARACTERISTICS OF TRA	IN FRICTION	OOLED	ANALYZERS - RADIOBIOLOGY	N63-12395	
STUDIES OF VELOCITY PROFILE, SK TRANSFER CHARACTERISTICS OF TRA SURFACE	IN FRICTION INSPIRATION-C N63-12692	00LED 06-11	SKIN TEMPERATURE TRANSDUCER SYSTEM FOR MEASU	N63-12395 RING SKIN TEMPERA	06-16
STUDIES OF VELOCITY PROFILE, SK TRANSFER CHARACTERISTICS OF TRA	IN FRICTION : INSPIRATION-C N63-12692	00LED 06-11 ALE	SKIN TEMPERATURE	N63-12395 RING SKIN TEMPERA DGE OF DYNA-SOAR	06-16

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OF SKIN PANEL SURFACE TEMPERATURES - EFFECTS OF INSULATION AND VIBRATION ON ACCURACY	NOLTR-63-132 N63-19655 19-20 DIRECTION OF MINIMUM ASSORPTION OF HOMOGENEOUS
ATL-D-811 N63-12288 05-15 X-15 AIRCRAFT SKIN AND STRUCTURAL TEMPERATURE	DIRECTION OF MINIMUM ABSORPTION OF HOMOGENEOUS PLANE MAVE TRAVERSING HOMOGENEOUS IONOSPHERIC SLAB AFCRL-63-650 M63-21202 21-12
DURING MACH 3-3 FLIGHT NASA-TN-X-468 N63-13912 09-04	SLATER-CONDON PARAMETER 11 JUNE 2007 2007 2007 2007 2007 2007 2007 200
AMBIENT TEMPERATURE EFFECT ON RELATION BETWEEN SKIN TEMPERATURE AND BLOOD FLOW IN RABBIT EARS AAL-TOR-62-45 N63-19237 18-16	SLATER-COMDON PARAMETERS OF ATOMS AND IONS N63-12049 05-23
SKIN TEMPERATURE AND SURFACE PRESSURE OF BLUNTED CONE-CYLINDER-FLARE CONFIGURATION FREE FLIGHT TEST. VEHICLE TO HYPERSONIC SPEEDS	SPIN COMPONENT AMALYSIS OF SINGLE SLATER DETERMINANT WAVE FUNCTIONS ARL-63-129 M63-17966 18-23
NACA-RH-L58G21 2442 4-472 10 17 1863-20529 20-13	S ROCKET SLED
CONSCIOUS TEMPERATURE PERCEPTION - CONSCIOUS COLD SENSATION ELICITED BY PERIPHERAL RECEPTORS AND WARM-SENSATION RECEPTORS CENTRALLY LOCATED N63-21849 22-16	SLEEP CF HIBERNATION EFFECT OF DEPRIVATION OF SLEEP ON HUMAN MERVOUS ACTIVITY - SPACE BIOLOGY 3 M63-21923 22-16
EFFECTS OF ACETYLSALICYLIC ACID ON HUMAN SKIN TEMPERATURE AT COLD TEMPERATURES AAL-TOR-63-14 N63-22717 23-14	EFFECTIVENESS OF ELECTRIC SLEEP TREATMENT IN
THE PERSON WAY IN THE PERSON WAY	JPRS-21712 TVH NO AT 4081 NO. NO. NO. NO. 23492 0824-16
SOUTHERN SKY SURVEY - NEBULOSITIES, ULTRAVIOLET FLUXES MASA-TN-O-1719 N63-13104 07-32	COMPOUND SLEEVE ASSEMBLIES FOR SUPPORT OF CERAMIC, CERAMIC-GOATED METAL, AND METAL EXTRUSION LINERS
INFLUENCE OF GROUND INHOMOGENEITIES ON RECEPTION OF SKYMAVE SIGNALS - CONDUCTIVITY CONTRAST NEAR A	CONTAINER-SLEEVE-LINER ASSEMBLY FOR ADEQUATE
COASTLINE 5-75-R-26 N63-19430 19-08	SUPPORT FOR CERANIC, CERANIC COATEO NETAL OR METAL LINERS - EXTRUSION BILLET TYPE ARF-2244-3 M63-16047 13-34
PROBLEM OF SKYWAYE FIELD FROM ELECTRIC DIPOLE ON INHOMOGENEOUS PLANE N63-19526 19-23	GAS-TIGHT POLYETHYLENE SLEEVE FOR ROTATING-BEAM FATIGUE TESTING MACHINES
MEASUREMENT OF ATTENUATION FACTOR AND RELATIVE FIELD STRENGTH OF SKY AND SURFACE MAVES FOR GROUND PENETRATION AND SIGNAL TRANSMISSION AFCRL-63-382 24-09	SLENDER BODY BASE FLOW CHARACTERISTICS OF BLUNT AND SLENDER
THE PLANT OF MANUAL PROPERTY AND AND THE PARTY OF THE OLD AND THE PARTY OF THE OLD AND THE PARTY OF THE PARTY	R62SD96 2 TOT TO WILLIAM BY REVIAM63-10970 02-02
DIURNAL AND ANNUAL VARIATION OF SPECTRAL INTENSITY OF ULTRAVIOLET SKY AND GLOBAL RADIATION AFCRL-63-654 N63-17622 16-12	LINEARIZED THEORY FOR ROTATIONAL, SUPERCAVITATING FLOW - APPLICATION TO PREDICTING FORCES ON SLEMBER HYDROFOILS AND WEDGES M63-12434 06-11
SEPARATION OF LINE AND CONTINUUM IN THE SKY EMISSION AND ITS CALCULATION BY RADIATION DIAGRAMS FOR MARROW SPECTRAL INTERVALS	AEROELASTIC DIVERGENCE OF SLENDER MULTISTAGE TEST VEHICLES HSA-93 N63-13059 07-30
AFCRL-63-680 N63-21474 22-12	AERODYNAMIC CHARACTERISTICS OF RECTANGULAR
INSTRUMENTATION FOR THE CONTINUOUS MEASUREMENT OF SOLAR AND SKY ULTRAVIOLET RADIATION USASRDL-TR-2290 N63-23785 24-28	PLANFORM, ALL-MOVABLE CONTROLS COMBINED WITH SLEMBER BODY OF REVOLUTION AT MACH 3 TO 6.25 NACA-RM-A55J07 N63-13114 07-03
KYLARK ROCKET SUPERSONIC WIND-TUNNEL TESTS ON SKYLARK ROCKET - FORCE & MOMENT	ABELIAN FUNCTION AND AERODYMAMIC APPLICATIONS - POTENTIAL FLOW AND SWEEPBACK FIN, SLENDER BODIES, COMPRESSOR BLADE-TURBINE BUCKET COUPLING ONERA-109/1962/ N63-13528 08-11
HSA-86 13 14 47 2848 Bt G12U 210 N63-10153 01-02	OMERA-109/1962/ N63-13528 D6-11 MENTON IMPACT LAW AS MODIFIED TO EXPLAIN THE
KYTOP-2 FACILITY SKYTOP-2 VERTICAL STATIC FIRING AND ALTITUDE— SIMULATION FACILITY	PROBLEM OF MINIMIZING DRAG OF SLENDER BODY OF REVOLUTION N63-13831 09-11
NAVWEPS-8068 191 21 Y8 033R0039 N63-13611 1 08-10	DETERMINATION OF BODY SHAPES OF MINIMUM DRAG USING NEWTON AND BUSEMANN PRESSURE LAWS
APPLICATIONS OF SIMPLIFIED SPHERICAL HARMONICS	0 1 73108 DIRECTOR OF THE CONTROL NO. 13033 1 09-20
REQUATIONS TO SPHERICAL REACTOR SLAB GEOMETRY WAPD-TH-294 WAS 11629 04-20	MENTONIAN SLENDER-BODY THEORY OF FLOW AROUND MINIMUM DRAG SHAPES N63-13834 09-20
SOLUTION OF TRANSIENT ONE-DIMENSIONAL HEAT CONDUCTION IN INFINITE SLAB AEOC-TDR-63-43 N63-13425 08-13	COMPARISON OF FLOW OVER FLAT DELTA WING AND RECTANGULAR PYRAMID USING SLENDER BODY THEORY ARC-CP-637 09-02
UPPER AND LOWER BOUNDS IN PROBLEMS OF MELTING OR SOLIDIFFING SLABS CU-23-62-0NR-266/20/-CE N63-14520 10-13	SLENDER BODY DRAG REDUCTION IN HYPERSONIC FLOW WITH NEWTONIAN PRESSURE COEFFICIENT DISTRIBUTION AND VARIABLE FRICTION COEFFICIENT DI-82-0223
BOLTZMANN EQUATION FOR ENERGY GROUPS IN SLAB GEOMETRY - TRANSPORT THEORY IDO-16856 N63-18833 18-20	EFFECT OF VORTEX FLOW ON AERODYNAMIC LOAD, FORCE, AND STABILITY OF SLENDER GODY AIRCRAFT
TAN 7090 FORTRAN DROCKAN FOR COMPUTING MEAT FLOW	NASA-TR-R-101 N63-14672 11-02

SLENDER BODIES OF MINIMUM DRAG IN NEWTONIAN FLOW

IBM 7090 FORTRAN PROGRAM FOR COMPUTING HEAT FLOW IN COMPOSITE SLAB

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01-82-0224	N63-15521 12	2-11 SLOPE CF INCLINATION		
SLENDER, TWO-DIMENSIONAL HYPERSONIC SPEEDS	BODIES OF MINIMUM DRAG N63-15753 12	G AT AIRBORNE ELECTRONIC EQUIPMENT	- GLIDE SLOPE	14-09
DI-88-0232 SLENDER BODIES OF REVOLU		LIFT SLOPE VALUES OBTAINED FR	OM FLIGHT MEASUR	REMENT
DRAG AT HYPERSONIC SPEED D1-82-0230	DESCRIPTION DATE OF THE PROPERTY OF THE PROPER	ARC-CP-651		22-02
FLOW IN WAKE OF SLENDER RAD-TH-63-33	HYPERSONIC VEHICLES	SLOSHING CF LIQUID DYNAMICS S-11 SLOSH DAMPING EFFECTIVENESS O	F POSITIVE EXPUL	
TRANSVERSAL CONTOUR OF H		BAGS AND DIAPHRAGMS IN SPHERI NASA-TN-D-1712		14-11
BODIES AT HYPERSONIC SPE D1-82-0242		0-02 DISCREPANCIES WITH DELTA-P SE		
OF SLENDER CONES AT HYPE		LIQUID PROPELLANT SLOSHING DU MTP-P&VE-P-62-6		
PERTURN STREET	N63-17906 16	0-02 NATURAL MODE FREQUENCIES AND LIQUID SLOSHING IN TOROIDAL T		M
AERODYNAMIC INFLUENCE CO BODIES - COMPUTATION MET		NASA-TN-D-1709		15-23
TDR-169/3230-11/TH-6 THEORY CALCULATION FOR G	N63-18891 18	FOR DAMPING OF FUEL SLOSHING NASA-CR-51373	A-14-51-17-1	22-11
TURBULENT WAKE BEHIND BL	N63-19024 18	-11 DAMPING EFFECT OF FLAT RING B		
SLENDER BODY NEAR WAKE-DI MACH 13 AND 18			CYLINDRICAL TANK N63-23511	
SLENDER, AXISYMMETRIC PO ZERO-LIFT DRAG IN HYPERS	HER BODIES HAVING MINIM	BAFFLE SYSTEM DEVELOPMENT TO SLOSHING IN TANKS OF ROCKET V MASA-CR-52069	EHICLES	24-26
DI-82-0275		EFFECT OF PROPELLANT SLOSHING		
	HYPERSONIC FLOW N63-20424 20		N63-23677	24-26
SLIDING CONTACT	I I I I I I I I I I I I I I I I I I I	EXTERNAL FIELD PRODUCED BY AN		ON A
GAS-LUBRICATED SLIDER BEATR-62-8	N63-12370 06	DIELECTRIC COATED ELLIPTICAL USCEC-82-206		09-23
SURFACE TEMPERATURE IN RE LUBRICATED WITH ELASTOHY MTI-63TR3	ORODYNAMIC LUBRICATION N63-13750 08	EDGE, CIRCULAR CYLINDER, RECT	ANGULAR WING	10-03
		EXPERIMENTAL NEGATIVE SLOT AN	PLIFIER - TUNNEL	10.14
EFFECT OF SLIP ON LAMINAN LEADING EDGE OF A FLAT PI				13-09
RAREFIED GAS FLOW FLIGHT SCIENCES LAB. TH-		SUBSONIC FLOW INTERFERENCE IN ARL/A-123		UNNEL 14-02
VELOCITY PROFILES IN KARP		COMPRESSIBLE FLUID VISCOSITY		TUBES
INTEGRAL METHOD WITH SLIF WALL EFFECTS	WACA-BUILASSADY	D1-82-0168	N63-16928	14-11
SC-4752/RR/	and the property of the property of the party of the part	WAVEGUIDE SWITCHING CIRCUIT I		MA -
HYPERVELOCITY FLOW OVER F	LAT PLATE	X-BAND AND S-BAND AFCRL-63-138	N63-17487	16-09
21-10 2021-04	N63-15427 12-	STANDARD WAVEGUIDES USED TO M		TC.
VISCOUS FLOW PAST ROTATING ARBITRARY VELOCITY SUCTION SC-4777/RR/		BROADSIDE	WILFELLIEY.	16-08
SLIPPER BEAM WIND TUNNEL MEASUREMENTS SLIPPER BEAMS MOUNTED ON	OF LIFT AND DRAG OF	RADIATION FIELD PRODUCED BY I	NFINITE SLOT IN BY HOMOGENEOUS P	PLASHA 20-24
RAL-RR-190	M63-11861 04-	-02 TASTESSAAN TASTESSAAN TASTESSAAN		494
PROPELLER SLIPSTREAM EFFE		PLATE WITH HINGED SLOT	N63-20467	20-33
SIX-PROPELLER VTOL MODEL NASA-TH-D-1509	AT STATIC THRUST	HEAT TRANSFER AND RESISTANCE WITH OVAL CONICAL STAMPINGS FTD-TT-63-617/16264	N63-23387	
DISCUSSION OF GROUND INTE AIRCRAFT. EFFECTS OF JET		M SPECTROMETRY, REFLECTION, SCA -04 STRUCTURE OF NEUTRON - SLOW NO AEC-TR-5734	EUTRON PHYSICS	21-23
FLIGHT CHARACTERISTICS OF V/STOL AIRCRAFT	DEFLECTED SLIPSTREAM	SLODGE STANDARD, KRAUKA, KRA	NOTTHEFT MEETING	157
NASA-TN-0-1891	M63-18663 17-	-04 CONVERSION OF HUMAN WASTE BY	N63-20566	20-16
CF GAP WATHETRENAKE TO ART HU	HIS MILES CALIFORNAL PROPERTY.	THE PROPERTY OF AMERICAN FOR THE	PENE - 1134 PROPE	

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16

SURRY CF COLLOTO CF EMULSION	SODIUM DEPENDENCE OF BIGELECTRIC OUTPUTS IN RAT STOMACH - RADIATION DAMAGE USNRDL-TR-608 N63-13573 08-16
PUMP TESTING FOR USE IN NITRIC ACID-ALUMINUM OXIDE SLURRY SERVICE 100-14612 N63-20722 21-17	THO PHASE HEAT TRANSFER DATA FOR SODIUM AND POTASSIUM UNDER CONDITIONS OF BOILING AND CONDENS THE CONDITIONS OF BOILING AND CONDITIONS OF BOILING AND CONDITIONS OF BOILING AND CONDITIONS OF THE CONDITIONS OF TH
SLUSH INFLUENCE OF SLUSH ON THE TAKEOFF RUN OF AN AIRPLANE OF-188 N63-14438 10-04	FORTRAN III /IBM 7090/ PROGRAM FOR CALCULATION OF SODIUM ION ELECTRON WAVE FUNCTIONS
STANDARD LAUNCH VEHICLE	VAPOR PRESSURE OF ALKALI METALS - CESIUM, RUBIDIUM AND SODIUM-POTASSIUM ALLOYS FOR USE IN HIGH TEMPERATURE HEAT TRANSFER - LIQUID METAL COOLING
SHOKE CF COLLOID AIRCRAFT REVETMENTS - FLOW PATTERNS IN SMOKE ARL-MEMO-1440 N63-13203 07-02	SODIUM BOILING & CONDENSING FOR HIGH TEMPERATURE HEAT TRANSFER - LIQUID METAL COOLED REACTOR
AIR PURIFICATION AND CONTROL IN NUCLEAR SUBMARINES - PRODUCTION OF SODIUM CHLORATE CANDLE AND DESIGN OF SMOKE FILTER FOR THIS CANDLE	POOL BOILING OF SODIUM FOR HIGH TEMPERATURE HEAT TRANSFER - LIQUID METAL COOLED REACTORS
S-58 HELICOPTER WAKE STUDIES BY PHOTOGRAPHS OF COLORED SHOKE TRAILS N63-20774 21-04	N63-15009 11-13 HIGH TEMPERATURE LIQUID METAL HEAT TRANSFER - OVERALL HEAT TRANSFER COEFFICIENTS FOR THE ALKALI
ATMOSPHERIC MISUSE AND SMOKE DIRECTION, DISPERSION AND WIND DIRECTION	METALS SODIUM AND RUBIDIUM, CONDENSATION STUDY N63-15018 11-13 HIGH TEMPERATURE LIQUID METAL HEAT TRANSPER -
BNL-784/T-298/ N63-22389 23-12 SMOKE-TRAIL VEHICLE DEVELOPMENT FOR WIND SHEAR MEASUREMENTS	VOID FRACTION TEST RUNS FOR BOILING SODIUM STUDIES N63-15023 11-13
NASA-TN-D-2009 N63-23681 24-02	DESIGN AND OPERATIONAL PERFORMANCE OF SODIUM FLASH VAPORIZATION FACILITY NASA-TH-D-1661 N63-15695 12-27
PHYSICAL AND STRUCTURAL STUDIES OF SNOW, ICE, AND FROZEN GROUND RELATED TO POLAR CLIMATOLOGY N63-14095 09-21	IRRADIATION OF ZIRCALOY-2 CLAD URANIUM RODS IN SODIUM-POTASSIUM-FILLED CAPSULES - FUEL ELEMENTS HN-67072 N63-16414 14-06
MECHANICAL PROPERTIES OF SNOW, ICE, AND FROZEN GROUND N63-16207 13-21	PLANETARY AERONOMY - ROLE OF INTERPLANETARY DEBRIS IN PLANETARY ATMOSPHERES - SODIUM IN ATMOSPHERES OF EARTH, VENUS AND MARS
PHYSICAL AND MECHANICAL PROPERTIES OF SNOW, ICE, FROZEN GROUND - POLAR METEOROLOGY N63-17757 16-12	CONCENTRATION OF OXYGEN IN LIQUID SODIUM
NIMBUS SATELLITE - METEOROLOGICAL APPLICATIONS - DELINEATION OF ICE PACKS AND MAPPING OF SNOW FIELDS - HEAT BALANCE AND DATA TRANSMISSION	UNC-5028 N63-17426 15-07 MOLECULAR BAND ABSORPTION IN THE VISIBLE SPECTRUM
N63-16604 17-30 SHOW STABILIZATION FOR ROADS AND RUNNAYS N63-22179 23-10	ARC AND PLASMA SYSTEM ARL-63-37 N63-17462 15-18
EFFECTIVE THERMOCONDUCTIVITY OF VENTILATED SNOW N63-22398 23-13	CARBURIZATION OF AUSTENITIC STAINLESS STEEL BY URANIUM CARBIDES IN SODIUM SYSTEMS NAA-SR-6246 N63-17695 16-18
OVERSNOW TRANSPORT IN TRACKED, WHEELED AND SKI VEHICLES - SNOW SINKAGE AND MOTION RESISTANCE, TRAIL MARKING, AND CREVASSE CROSSING CRREL-111-A4 N63-22639 23-10	DETERMINATION OF TRACES OF MITRIDE MITROGEN IN SODIUM BY TITRATION M63-18113 16-07
CRREL-III-A4 N63-22639 23-10	DETERMINATION OF CARBON IN SODIUM BY ISOTOPE DILUTION AND HASS SPECTROMETRY NAA-SR-7918 H63-18180 16-07
CF CULTURE	DENSITY OF UPPER ATMOSPHERE DETERMINED BY DIFFUSION OF SODIUM VAPOR NA3-18440 17-12
SOCIOLOGY AND THE SPACE PROGRAM NASA-CR-50437 N63-18864 18-01	DISPOSITION OF SODIUM, MANGAMESE AND ALUMINUM AT CALIFORNIA BEACHES USANDL-TR-050 H69-18740 17-07
ODIOM CF ALKALI METAL UPPER ATMOSPHERE WIND MEASUREMENTS DETERMINED FROM TWELVE ROCKET EXPERIMENTS — SOOTUM AND CESSUM	AIR COOLED SODIUM HEAT EXCHANGER N63-18797, 18-13
VAPOR CLOUDS N63-11244 03-12 APPLICATION OF FIELD-ION EMISSION TO ELECTROSTATIC ROCKET ENGINES - IONIZATION LIFETIMES OF HYDROGEN,	THERMOPHYSICAL PROPERTIES OF SODIUM AND POTASSIUM AT HIGH TEMPERATURES MASA-CR-50737 NA3-18997 18-07
LITHIUM, SODIUM, RUBIDIUM, CESIUM, AND XENON NASA-TN-D-1563 N63-12195 05-30	SODIUM LINE REVERSAL TEMPERATURE MEASUREMENTS OF
URANIUM OXIDE-SODIUM POTASSIUM SLURRY FOR REACTOR FUEL MIL-6644 N63-13025 07-26	PHYSICO-THERMAL PROPERTIES OF SOOTUM, POTASSIUM, AND SOOTUM-POTASSIUM ALLOYS FROM BOILING POINT TO 1300-DEG C

EUR-357.D	N63-20062	20-18	JPRS-20469	N63-19818	19-16
TEST RESULTS OF A SODIUM CRYOGE UCRL-7401	NIC COIL		FLUOROCARBON NITROGEN-FLUORIDE BROMINE CYANIDE AND SODIUM CYA	E COMPOUNDS FRO	ON S
EQUILIBRIUM COMPOSITION AND THE PROPERTIES OF SOCIUM VAPOR FROM		OO DEG	WITH SULFUR TETRAFLUORIDE AROD-007-16	N63-19977	19-07
RELVIN BALLISTICS RES. REPT79	more revenue	23-11	NITROGEN TRIFLUORIDE REACTION: HYDROXIDE - NITROUS OXIDE PRO		
INTERACTION OF ACTIVE SODIUM & TRANSPORT IN ISOLATED RABBIT IN		SE	CORROSION PRODUCTS HQ-76-2	N63-20945	21-07
METABOLISM THE ROY ZITTER MAIL	N63-23521	24-16	SODIUM COOLING SODIUM-COOLED REACTORS - FAST	CERAMIC REACT	
FLUIDS IN HEAT REJECTION LOOP O		TEM	PLUTONIUM OXIDE/URANIUM OXIDE GEAP-4080	N63-13736	
DOTUM ALLOY	Total Problem		/LAMPRE/ PROGRESS - REACTOR DE	ESIGN, PLUTONI	ENT UM FUEL
IRRADIATION OF ZIRCALOY-2 CLAD SODIUM-POTASSIUM-FILLED CAPSULE	S - FUEL ELE	MENTS	ALLOYS, SODIUM COOLING SYSTEM LAMS-2875	N63-14569	10-10
HW-67072 DDIUM CHLORATE	N63-16414	14-06	CAPSULE IRRADIATION OF UNALLOT TEMPERATURES - FUEL DEVELOPMEN	YED URANIUM AT	HIGH
AIR PURIFICATION AND CONTROL IN MARINES - SULFATE CYCLE, SODIUM	NUCLEAR SUB CHLORATE CA	NDLE.	REACTORS NAA-SR-7098	W. W. T.	10-26
ANALYZER, ALGAL GAS EXCHANGER,	N63-14927	IR	SODIUM COOLED CERANIC REACTOR	- FUEL REACTION	ONS
AIR PURIFICATION AND CONTROL IN SUBMARINES - PRODUCTION OF SODI	NUCLEAR	CANDIE	GEAP-4214 SODIUM COOLED NUCLEAR REACTOR	N63-20832	21-23
AND DESIGN OF SMOKE FILTER FOR	THIS CANDLE		NAA-SR-7909	N63-22093	1000
DOTUM COMPOUND		elita.	SODIUM FILM LUBRICATION	NEWENTS - CHILD	100
HIGH TEMPERATURE CALORIMETER AN ENTHALPIES OF ALPHA-ALUMINUM OX			SODIUM FLUDRIDE		100Y 280
CHLORIDE	N63-12617		GASOMETRIC APPARATUS FOR CHARA REACTIONS - SODIUM FLUORIDE WI		
THERMODYNAMICS OF SODIUM DIMOLY DITUNGSTATE		* 0.00	AND URANIUM HEXAFLUORIDE ORNL-3497	N63-23568	
BM-RI-6191 THERMOLUMINESCENT SPECTRA OF SO			SOFT LANDING CF LUNAR LANDING		130
HYDROXIDE-FREE SODIUM CHLORIDE 40-MEV ALPHA PARTICLES			VARIABLE-THRUST PROPULSION FOR		The
NASA-TN-D-1662	N63-14205		NAVWEPS-7900	N63-13759	08-27
METAL POLYCHELATE CATALYTIC PRO EXPERIMENTATION WITH SODIUM AND	PERTIES FROM	S OF	EARTH-HOON VERSUS PARKING-ORB! LUNAR SOFT-LANDING MISSION		FOR
AID 5-63-34	N63-14373	10-07	JPL-TH-33-114 AKE AVAIL ONA		15-21
PREPARATION OF BLACK, ACTIVE SO	DIUM AZIDE -	533	GUIDANCE REQUIREMENTS FOR SOFT		
THERMODYNAMICS OF ALKALI AZIDES	N63-15226	11-07	HRSA-CK-30213	NO3-11211	15-20
ULTRASONIC METHODS FOR STUDYING DEFORMATION IN SINGLE CRYSTALS			SOFT-LANDING VEHICLE OF RANGES		21-29
ASD-TDR-62-186	FECTS N63-15806	13-33	SOIL CF CLAY	NOW TRANSFERDING	
INFRARED SPECTROSCOPY OF CRYSTAL	LS - SODIUM		CF GLAY CF MINERAL EARTH TRAJECTORY MODEL FOR SUE	AA-III-	AUTHORIO
AFCRL-62-369	N63-16435	14-25	AND THRUSTED VEHICLES AFSWC-TOR-62-106	N63-10430	7668
PLASTIC DEFORMATION OF SODIUM CO	HLORIDE BICK	YSTAL	TEMPERATURE FLUCTUATION AT A N		79929
AROD-2916-1	N63-17513	16-25	RATE ANALYSIS OF WATER FLOW IN		7 maa
ULTRASONIC INSPECTION - ALUMINUM CHLORIDE SINGLE CRYSTAL DEFORMA	AND SODIUM	ESS	COMPUTER PROGRAM FOR NONSTEADY	SOIL HOISTUR	E
CYCLING - DEFECT FORMATION ASD-TDR-62-186, PT. II	N63-18393	17-25	TRANSFER - METEOROLOGY ERDAH-MET-2-63	N63-11626	04-21
ALKALOSIS DUE TO INTRAVENOUS SOI INFUSION IN DOGS SAM-TOR-63-15	10 miles 1 2 miles	NATE 18-16	TRANSFER OF WATER FROM SOIL TO RELATED TO SOIL PROPERTIES, PI AND WEATHER	ATMOSPHERE AS ANT CHARACTER N63-12167	S 1 S T 1 C S. 05-21
INFLUENCE OF ROOM-TEMPERATURE AT PRODUCTS ON DUCTILITY OF SODIUM	MOSPHERIC R		MEASURING ROCK AND SOIL STRENG SURFACE OF THE MOON	TH PROPERTIES	AT THE
CRYSTALS AUGASM SAUTANEMENT SAN	N63-19456		JPL-TR-32-374	H63-12922	07-21
ACTIVITY COEFFICIENTS OF HYDROCH SODIUM CHLORIDE IN HYDROCHLORIC CHLORIDE MIXTURES BASED ON PH FA	ACID-SODIUM		SOIL SCIENCE IN SPACE EXPLORAT STERILIZATION AS PART OF DECOM PROGRAM FOR SPACE FLIGHT	ION - ZOIF	URANI CRANE
ORNL-3471	N63-19813	19-07	JPL-TR-32-399	N63-13590	08-2

PHYSICAL CHEMISTRY - CATION MIGRATION INTO THE

SODIUM LACTATE FOR RADIATION SICKNESS IN RABBITS

19-11

19-07 Dian 21-07

OB-QI T FUEL

10-10 16H DLED 10-26

2-16

GAS RIDE 4-07

9-27

i-21

-29

-20

-23

-21

THE

29

GROUND EUR-141.F		08-07	TABLES OF IONOSPHERIC DATA AND INDICES OF SOLAR ACTIVITY FOR 1958 863-18326 17-12
INFRARED SPECTROPHOTOMETRY FOR I SOIL ANALYSIS MASA-TN-D-1871	UNAR AND PLA N63-14406	10-29	ASSOCIATION OF MESON INTENSITY VARIATIONS IN COSMIC RAYS AT HIGH LATITUDE WITH SOLAR ACTIVITY AND GEONAGHETIC DISTURBANCES
LUNAR SOIL AS SOURCE OF OXYGEN	N63-14989	11-29	BALLOON SATELLITE PROBE OF SOLAR ACTIVITY, CELESTIAL RECHANICS, & ASTROPHYSICS
SHALL SOIL STRAIN GAUGE	N63-15567	12-15	JPRS-20475 N63-19553 19-05
ENERGY BUDGET AT EARTH SURFACE - STUDY, ELLIS HOLLOW, ITHACA, NEW		13-12	COSNIC RAY INCREASE BETWEEN MAGNETIC STORMS - INDEX OF SOLAR ACTIVITY AFCRL-63-855 N63-20925 21-28
PERFORMANCE COEFFICIENTS FOR PON SAND - SOIL VEHICLE ANALYSIS	VERED WHEELS N63-15919	1N 13-10	INTERPRETATION OF SOLAR RADIATION OBSERVATIONS USING PHYSICAL THEORY & SOLAR STRUCTURE AND ACTIVITY N63-23450 24-29
MECHANICAL PROPERTIES OF SNOW, 1	CE, AND FROZ N63-16207	EN 13-21	SOLAR ATROSPHERE 23350 PG35312 TRATEICAR PG1TALGAR SA CHRONOSPHERE
PROPAGATION OF SHOCK WAVES INDUCE EXPLOSIONS - EFFECTS OF SOIL PROSTRUCTURAL DYNAMICS		ROUND	SA PHOTOSPHERE SOLAR RADIO ASTRONOMY - SOLAR FLARES & ATMOSPHERES M63-10222 01-05
GEOLOGY - HUGONOIT DATA FOR PORT		16	CONTINUOUS ABSORPTION IN SOLAR ATMOSPHERE BY QUASI-HYDROGEN MOLECULE N63-10596 02-05
SC-4903/RR/	N63-17996	16-12	SOLAR PHYSICS - PHOTOSPHERE, CHRONOSPHERE, SOLAR CORONA, SOLAR FLARES IAS PAPER-63-1 N63-12879 07-03
STRESS HAVE INTERACTION IN SOIL- THEORETICAL ANALYSIS OF BLAST OF PROTECTIVE CONSTRUCTION	LIKE MEDIUM UNDERGROUND	90/2	IAS PAPER-63-1 M63-12879 GT-05 METHODS FOR STUDYING SOLAR CORPUSCULAR STREAMS AND
SWC-TOR-63-43 ENERGY AND MASS TRANSFERS NEAR 1	N63-18791	16-33	THEIR SOURCE IN SOLAR ATMOSPHERE - SPECTROSCOPY AND GEOMAGNETISM N63-13776 08-29
INFLUENCE OF SOIL-PLANT-ATHOSPHI	RE SYSTEM	18-12	KIMEMATICAL HYDROMAGNETIC THEORY APPLICATIONS TO LOW SOLAR PHOTOSPHERE EFINS-63-1 09-05
ULTRAHIGH VACUUM AND TEMPERATURI VIABILITY OF SPORE AND SOIL ORGA		19-16	MAPS OF THE SOLAR CHROMOSPHERE WITH CATALOGS OF FLARES AND SUNSPOTS N63-14544 10-12
BIOCHEMICAL ANALYSIS OF MARTIAN MICROSCOPY		CON 19-15	SOURCE OF SOLAR FLARES - SOLAR ATMOSPHERE OR PHOTOSPHERE N63-14558 10-28
COLORIMETRIC DETERMINATION OF OR SOILS FOR DETECTION OF EXTRATERS NASA-CR-50778	ESTRIAL LIFE		EMISSION IN PSEUDO-RESONANCE LINE OF NEUTRAL HELIUM IN SOLAR ATMOSPHERE - INFRARED TRIPLET LINE N62-14669 10-05
EARTHWORK ENGINEERING CAPABILITY MECHANICS & GEOLOGIC STUDIES	ES - SOIL N63-20447	20-12	LITHIUM AND BERYLLIUM ABUNDANCE IN METEDRITES AND SOLAR ATMOSPHERE 10-28
SOIL STABILIZATION CAPABILITIES PURPOSES	FOR HILITARY N63-20448		MAPS OF SOLAR CHROMOSPHERE AND CATALOGS OF FLARES AND SUNSPOTS - SPECTROHELIOGRAPH ANALYSIS
CAPABILITIES IN SOIL DYNAMICS RETESTS, LABORATORY TESTS, SITE IN DESIGN AND ANALYTICAL STUDIES			SOLAR CELL CF BATTERY SOLAR POWER SYSTEM FOR THE ARIEL SATELLITE /UK-1/
ORGANIZATION OF WATERWAYS FACILI	TY - HYDRAUL N63-20716	1CS. 21-10	ARS PAPER-2498-62 N63-10252 01-06 SOLAR-CELL POWER SYSTEMS TESTING - BALLOON FLIGHTS
DETERMINATION OF SOIL PROPERTIES	and making a	Address .	ARS PAPER-2504-62 N63-10255 Q1-06 EFFECT OF SPACE ENVIRONMENT ON PHOTOVOLTAIC CELLS
NASA-CR-50930	N63-21044	21-29	ARS PAPER-2536-62 NA3-10263 01-06 SOLAR CELLS WITH THIN FILM CADMIUM SULFIDE
LUNAR TEMPERATURES, SURFACE RADI SOIL HECHANICS SH-43544	ar Savorto e	24-29	ARS PAPER-2566-62 N63-10272 01-06
AR ACTIVITY SOLAR AND LUNAR TIDES IN THE DRI AFCRL-62-1031	FT OF THE E-	REGION 01-29	SOLAR CELL RESISTANT TO RADIATION DAMAGE - SILICON P-N JUNCTION ARS PAPER-2567-62 N63-10273 01-06
INTERPLANETARY MEDIUM - FIELDS A DATA FROM MARINER II VENUS PROBE	ND PARTICLES		RADIATION RESISTANT SOLAR CELLS EOS-2080-HL-9 N63-11394 03-25
STATES CONTRACT CONTRACT AND CONTRACT OF	N63-13194	Sens	PROTON DAMAGE TO SILICON SOLAR CELLS N63-12417 06-06
CORRELATION OF SOLAR FLARES IN TO DF ACTIVITY OF SOLAR REGIONS - I PROTON EVENTS	THE WITH IND REDICTION OF NA3-15121	SOLAR	SOLAR CELL ARRAY OPTIMIZATION ASD-TR-61-11, VOL. 111 N63-12708 06-06
REPORT ON SOLAR ACTIVITY - FLARE FILAMENTS, SURGES, AND RADIATION	S. PROMINENC	CONTRACTOR	DESIGN STUDY OF SOLAR ENERGY MEASUREMENT

SOL

	RADIATION RESISTANT SOLAR CELLS WITH BASE REGION IMPURITY GRADIE ACCELERATES MINORITY CARRIERS TO	NT WHICH	NCTION	SYSTEMS FOR AUTOMATICALLY ORIENT SOLAR CELL FLAT-PANEL ARRAYS TO GER-11184	N63-23612	141.000
	EGS-2080-IR-1 REGENERATIVE HYDROGEN PEROXIDE F SOLAR CELLS FOR BOTH PRIMARY AND	WEL CELLS US	SING VE	SOLAR COLLECTOR SOLAR ENERGY THERMIONIC CONVERSI ARS PAPER-2499-62		01-06
	POWER REPORT ON GALLIUM ARSENIDE SOLAR		09-06	STATUS OF SOLAR ENERGY COLLECTOR ARS PAPER-2531-62	TECHNOLOGY N63-10261	01-04
	RESEARCH IN PHOTOVOLTAIC CONVERS SOLAR CELLS, CRYSTAL SEMICONDUCT	N63-14145 ION - LARGE ORS. AND SI	AREA LICON	USE OF MAGNETIC AND SOLAR ENERGY FROM METEORS, BASED ON TSANDERS AID-62-179	SPACE FLIGHT	
	EFFICIENCY PHOTOVOLTAIC CONVERSION OF SOLAR ELECTRICAL ENERGY FOR AUXILIARY	N63-14146 ENERGY INTO POWER IN SPA	09-06 0 ACE	STATUS OF THERMOELECTRIC DEVICES REFRIGERATION & AIR CONDITIONING	- GENERATOR EQUIPMENT,	es.
	VEHICLE SYSTEMS RADIATION RESISTANT SILICON CELL	N63-14148	09-06 ENERGY	ANALYSIS SARRICATION AND YEST O	M03-14441	10-23
	CONVERSION	N63-14149	09-06	CONCENTRATORS EDS-1860-Q-4	N63-15971	13-10
	ZING-SILVER OXIDE BATTERIES TEST APPLICATIONS	N63-14160	09-06	SPECTRALLY SELECTIVE SURFACES US OF SOLAR ENERGY FOR HEAT ENGINES	IN SPACE	
	SOLAR-CELL POWER SYSTEMS TESTING JPL-TR-32-350	N63-14450	10-06		N63-17148	15-06
	RADIATION MEASUREMENTS FROM ULTR INFRARED AND ENERGY CONVERSION U SOLAR CELLS		NOUCTOR 11-15	REFLECTOR PIPE FOR TRANSMITTING FROM SOLAR COLLECTOR TO SPACECRA INTERMEDIATE CARNOT CYCLE LIMITE EOS-3000-Q-3	FT WITHOUT	21-06
	RADIATION DAMAGE TO SOLAR CELLS	N63-15123	11-06	SUMPLOWER POWER CONVERSION - SOL POWER CONVERSION, SPEED CONTROL, CONDENSER-SUBCOOLER, LITHIUM HYD	AR COLLECTOR TURBO-ALTER	RNATOR,
	SOLAR CELL DEGRADATION BY PROTON RADIATION HAZARD	BORBARDHENT N63-15128	11-06	ER-4925	N63-21226	21-06
	SOLAR CELL POWER SUPPLY IN SPACE MEASUREMENTS & POWER EFFICIENCY		W03	SOLAR COLLECTORS FOR ENERGY CONV THE EFFECT OF SURFACE DISTORTION EFFICIENCY	ON CONVERSI	ION
	ASO-TDR-62-882		13-15	NASA-CR-51542 SOLAR CORONA	N63-23522	24-15
	PROTON-NEUTRON DAMAGE CORRELATIO SEMICONDUCTORS - SILICON SOLAR C EFFECT	ELLS & RADIA	TION	THE STRATOSPHERIC SOLAR CORONA	N63-10196	01-05
	NASA-CR-50422	N63-18856	18-09	DEVIATION FROM STRUCTURAL REGULA		
	HIGH TEMPERATURE RADIATION-RESIS ARSENIDE SOLAR CELL ARRAYS - RESI FABRICATION RESULTS	TANT GALLIUM EARCH AND	1.784	FIELD IN OUTER SOLAR CORONA TRIPARTITE RADIO INTERFEROMETER	N63-11527 FOR OBSERVIN	03-05
	RCA-AED-R-1875		20-06	ECLIPSE OF CRAB NEBULA BY SUPERC	ORONA OF THE N63-11549	SUN 04-05
	SPACE RADIATION EFFECTS ON SOLAR SYSTEMS IN SPACECRAFT	and the same and	***	SOLAR PHYSICS - PHOTOSPHERE, CHR	OMOSPHERE, S	OLAR
	NASA-SP-3003 OPTIMIZATION OF SOLAR CELL POWER		20-06	CORONA, SOLAR FLARES IAS PAPER-63-1	N63-12879	07-05
	INTERPLANETARY SPACECRAFT	N63-20602	20-06	SOLAR CORPUSCULAR RADIATION AND MAGNETIC FIELD IN SOLAR CORONA	TOPOLOGY OF	
	SOLAR CELL GENERATORS FOR SATELLY		122 33	E1-02 E+402-KON -521004E 34311	N63-13778	08-21
	DESIGN THEORY NASA-TN-D-1904	N63-20606	20-06	RADIATIVE LOSSES EVALUATED FOR AL IONS PRESENT IN INTERPLANETARY G RADII - SOLAR CORONA ENERGY BALA	AS FROM 4 TO	
	SOLAR CELL CHARACTERISTICS AND PE EFFICIENCY, COATINGS, AND APPLICA		384-91	MANA COMMINICATION TIME	N63-14231	10-28
	NASA-RP-9	N63-21005	21-09	HYDRODYNAMIC MOMENTUM AND MASS-FI SOLAR AND STELLAR CORONA	LOW EQUATION	IS FOR
	CHARGED PARTICLE RADIATION DAMAGE	E IN SILICON	AND	EFINS-63-18 PARTORA BARDARE YES	N63-15445	12-24
	NASA-CR-51530	N63-22353	23-09	SOLAR CORONAL HEATING CAUSED BY FRICTION SETTLING HELIUM IONS, HYDROMAGNETIC AND MAYES, AND INTERNAL GRAVITY	FRICTION OF TIC AND ACOU	ISTICAL
	SOLAR CELLS AS SPACECRAFT AUXILIA S10-62-708	N63-22771	23-06		N63-17170	15-05
	CHARGED PARTICLE RADIATION DAMAGE GALLIUM ARSENIDE SOLAR CELLS NASA-CR-51531	N63-22891	11/2/25	THEORY OF SOLAR WIND AS HYDRODYN OUTER CORONA DUE TO GRAVITATIONAL THERMALIZATION	L BINDING AN	
	CHARGED PARTICLE RADIATION DAMAGE			AIAA PAPER-63-253	N63-17798	16-09
	SEMICONDUCTORS - EFFECT OF 1-MEV BOMBARDMENT ON SOLAR CELLS	ELECTRON		SPACE ENVIRONMENT AS A DIELECTRIC	C - SOLAR CO N63-22687	23-21
ı	NASA-CR-51529	N63-22892	23-06	O6 SOLAR CORPUSCULAR STREAM PHYSICS OF SOLAR CORPUSCULAR STREAMS AND I UPPER ATMOSPHERE - SOLAR FLARES, SOLAR SPECTROGRAPH, AND AURORAE - N63-1377	ON STRUNG WE	01008
	CHARGED PARTICLE RADIATION DAMAGE SEMICONDUCTORS - ELECTRON DAMAGE CELLS	IN SILICON			SOLAR	08-21
	NASA-CR-51533	N63-22893	23-06	POSSESSED TRANSPORTED AND ASSESSED TO THE PROPERTY OF THE PROP		THE

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29

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PHOTOVOLTAIC CONVERSION OF SOLAR ENERGY INTO ELECTRICAL ENERGY FOR AUXILIARY POWER IN SPACE VEHICLE SYSTEMS MAS-14140 09-06

RADIATION RESISTANT SILICON CELLS FOR BOLAR ENERGY CONVERSION N63-14149 09-06

NETHODS FOR STUDYING SOLAR CORP THEIR SOURCE IN SOLAR ATMOSPHER AND GEOMAGNETISM		COPY	SOLAR COSMIC RAY - ENERGY, FOR GEOMAGNETIC FIELD, GENERAL DETECTORS	ATION MECHANISMS, AND
SPECTROSCOPIC STUDY OF CORPUSCU	LAR EJECTION	S ON	R-63-8, PT. Injury	COLD S VILLED VARIABLE VILLED IN A STREET
THE SUN - FACULAE EMISSION FROM	HYDROGEN AND N63-13777	08-28	OBSERVATION OF SOLAR COSMIC TO FEBRUARY 1961 WITH EXPLOI MASA-CR-50421	RER VIII 3 31938YJ09
SOLAR CORPUSCULAR RADIATION AND	TOPOLOGY OF	484	O-BENC SERBE-FOR BE CHESTED WAS	METTE STERME
MAGNETIC FIELD IN SOLAR CORONA	N63-13778	08-28	TIME VARIATION OF SOLAR COST HIGH ALTITUDE BALLOON FLIGHT 1960 SOLAR FLARE EVENT	TS DURING SEPTEMBER 3.
LECTURES ON SOLAR CORPUSCULAR S	TREAMS AND TH N63-13779	08-28	OF CR-65 STATES THE CHARLES WISE	M63-10905 -0:10-29
MAGNETIC AND IONOSPHERIC DISTUR REGIONS FROM SOLAR CORPUSCULAR OF STREAM/EARTH INTERACTION	BANCES IN THE STREAMS - THE N63-13780	EORIES	SOLAR COSMIC RAY EVENTS - S VARIATIONS AND ENERGY & MOM R-63-8, PT. II	ENTUM SPECTRA N63-19183 18-28
SOLAR FLARES AND CORPUSCULAR ST GEOMAGNETIC DISTURBANCES	REAMS PRODUCT	ING 08-28	ANOMALOUS ENTRY OF LOW-RIGHT INTO GEOMAGNETIC FIELD	N63-23163 24-28
LECTURES ON IONOSPHERIC EFFECTS	OF COLAR	0.695-74	SOLAR CYCLE	WALES AND STORY - 04 MO
CORPUSCULAR STREAMS AND GEOGRAP MAGNETIC DISTURBANCES	HIC DISTRIBUT	710N OF 08-28	OF THE UPPER ATMOSPHERE	AN 30 N63-1159703:04-12
HYDROGEN EMISSION IN SPECTRUM O	F POLAR AUROI N63-13783	RAE 08-12	PRIMARY COSMIC RAY AND SOLA BY HIGH ALTITUDE BALLOON FL TO SOLAR ACTIVITY CYCLES	IGHTS - RELATIONSHIP
EQUATION FOR QUASI-STATIONARY E LAYER AND SOLAR CORPUSCULAR STR	EAM HOTE	f F2	DISTRIBUTION OF SUNSPOT ACT	
INTERACTION BETWEEN A NEUTRAL S	N63-13784	08-28	ELECTRON CONTENT OF IONOSPH NEAR PEAK OF SOLAR CYCLE	
SOLAR CORPUSCLES WITH THE MAGNE	TIC DIPOLE F	IELD OF	TOUT OF TAXES, THISON - THOSE	437 13×308 318139 19
EARTH NASA-TR-R-120			RADIO STAR SCINTILLATIONS A SOLAR CYCLE - OBSERVATIONS	NO SPREAD-F ECHDES OVER OF CASSIDPEIA A 18-05 NA3-19098 18-05
AR COSNIC RAY				NAS-15727 11-04
ENERGETIC PARTICLE PRODUCTION &	N63-10223		SOLAR ENERGY CF SOLAR RADIATION CF SOLAR WIND	SOLAR FLARE CLE COMERNY WILLIAMS TO TI-SCOSMICTERYCHRICATE
SOLAR COSMIC RAY EVENT - SEPTEM	M63-12064	05-28	SOLAR ENERGY THERMIONIC CON	VERSION SYSTEM 1834A 863-10253 01-06
TIME VARIATIONS OF POLAR CAP AS WITH SOLAR COSMIC RAY BOMBARDME INVESTIGATIONS			STATUS OF SOLAR ENERGY COLL ARS PAPER-2531-62	ECTOR TECHNOLOGY
UAG-R127	N63-12198		USE OF MAGNETIC AND SOLAR E FROM METEORS, BASED ON TSAN	DERS SPACE FLIGHT WORK
IONOSPHERIC ABSORPTION PRODUCED RAYS	BY SOLAR CO	SMIC	A10-62-179	N63-10408 01-29
AFOSR-410 CAR (421 (444 314243 3	180	g-cit	FLAT-PLATE SOLAR THERMOELEC GA-2823	N63-10438 01-06
SOLAR COSMIC RAYS - PROPAGATION IAS PAPER-63-3	N63-12881	07-28	PHOTOEMISSIVE SOLAR ENERGY ASD-TOR-62-600	
HAZARD OF SOLAR AND GALACTIC CO	SMIC RADIATION N63-15117	11-28	SOLAR ENERGY CONVERSION USI	NG CADMIUM SULFIDE
COMPOSITION OF SOLAR COSMIC MAY	S - RADIATIO N63-15118	17441311	ASD-TDR-62-69 EXPANDABLE STRUCTURES, SPAC	N63-10707 02-06
THE PROPERTY OF STREET			COLLECTORS, RECOVERY	THE REPORT OF THE PERSON OF TH
ENERGY SPECTRA, INTENSITY AND R MAYS FROM SOLAR PROTON EVENTS		N-X		48 RA N63-10951 GR02-34
	N63-15119	11-28	CHEMICAL, SOLAR, NUCLEAR EN THERMIONIC DEVICES - METALL	ERGY - THERNOELECTRIC &
SYMPOSIUM ON AEROSPACE RADIOBIC SPECTRA AND COMPOSITION OF SOLA VARIATIONS AND PROPAGATION FROM	R COSHIC RAY	Y S, TIME	POLYMERIC & COMPOSITE MATER TDR-930/2701-01/TN-1, VOL.	IALS - ABSTRACTS 11 12222 105-27
11 165	N63-15286	12-28	DESIGN STUDY OF SOLAR ENERG	TV DR STORESINABARY 20
SOLAR COSMIC RAY EVENT OF SEPTE PROPAGATION OF RAY THROUGH INTE	ERPLANETARY S	PACE	TECHNIQUES	CHITTE PERSON IN HEREAGE
Total States on the real department	N63-15314	12-28	ENERGY FLUX OF HEAVY MUCLES	IN JULY-10, 1959
SPACE SCIENCE - SATELLITE OBSER SOLAR COSMIC RAYS - EXPLORER 7		LACTIC	SOLAR FLARE	WASH 18958 07-12
CONTRACTOR STATE OF THE STATE O	N63-16009	13-28	DEVELOPMENT OF MAIN PHASE A	SOLAR PLARE
COMPOSITION AND ENERGY SPECTRA RAYS - NOVEMBER 12, 1960 - SOLA	OF SOLAR COS	MIC	ACTIVITIES DURING MAGNETIC	STORMS N63-12959 07-12
MELION, AND MUCLEI	N63-16293		PHOTOVOLTAIC CONVERSION OF	SOLAR ENERGY INTO

N63-16293 113-28

SPACE RADIATION - INTERPLANETARY PLASMA & GALACTIC RADIATION - SOLAR COSMIC RAYS AND GEOMACHETICALLY TRAPPED PARTICLES N63-16470 14-28

HIGH ENERGY RADIATION FROM PARTICLE FLARES, GAMMA RAYS EFINS-63-9		SO GE
FLIGHT VEHICLE POWER & MATE & NUCLEAR ENERGY - ELECTRIC POLYMERIC & COMPOSITE MATER	. ELECTRONIC, MAGNETIC.	SA DI GR
TOR-930/2701-01/TH-1/IIPT 1		HI
AVICOTACHARACTURE ATTRACTOR	MINER NAMED AND PARTY.	EF
THERMIONIC GENERATOR UTILIZ APPLICABLE TO SPACE POWER S ASD-TOR-42-899		MA FL
CRYSTAL STRUCTURE STUDIES O	OF THE PARTY OF TH	so
POTENTIAL USE IN SOLAR ENER		PH
SOLAR SEMIDIURNAL TIDE ENER	GETICS IN FARTH	CO
ATMOSPHERE	THE DESIGNATION THE	PR
AFCRL-63-690	N63-19728 19-21	PR
DECOMPOSITION OF WATER BY S	OLAR ENERGY	EX
AFCRL-63-666	M63-19875 19-07	81
IMPROVEMENT OF SOLAR ENERGY SULFIDE THIN FILM PHOTOVOLT	AIC CELLS	OB
40 A 200 A TOY OF BUT YOU KNOW YOU	N63-20941 21-25	RE
SOLAR ENERGY CONVERSION USI	NG THIN DIELECTRIC N63-22698 23-28	MI
SOLAR ENERGY THERMIONIC /SET/	PROGRAM	SUPR
AGENA LAUNCH OF SOLAR ELECT	EARTH SHADOW - THOR-	RE
/SET/ PROGRAM		FI
AIAA PAPER-63035	N63-21167 21-06	16
CF SUNSPOT		SO
COSMIC RAY INTENSITY VARIAT	TONS DURING 1961 N63-10107 01-28	so
ENERGETIC PARTICLE PRODUCTI	ON BY SOLAR FLARES -	RE
COSMIC RAYS	N63-10223 01-28	1(1)163
ATMOSPHERIC LOSS FROM EARTH		SO AN
TRITIUM AND HELIUM IN SOLAR	N63-10460 01-12	16
SYNOPTIC FLARE DATA, 1937 T	0 1960	RA BE
AFCRL-62-827	N63-10490 01-28	PR P-
TYPE III SOLAR RADIO NOISE		4.94.7.29
POLARIZATION AND DRIFT RATE SN-290	N63-12077 05-05	SO NA
NOISE STORMS, SOLAR FLARES,	AND TYPE V RIMSTS	EN
AFCRL-62-1066	N63-12120 05-28	IN
THEORY OF RECONNECTION AND	ANNIHILATION OF	FL
MAGNETIC FIELDS WITH APPLICAND INTERSTELLAR SPACE	ATION TO SOLAR FLARES N63-12150 05-28	PR
	A designation of the second	X-
BERYLLIUM, BORON, CARBON, N		SA NA
SUNSPOT COSMIC RADIATION	N63-12179 05-28	PR
EFFECT OF SOLAR FLARES ON E	LECTRON DENSITY OF	
IONOSPHERE RAD-TR-62-58	N63-12795 06-28	co
SOLAR PHYSICS - PHOTOSPHERE	CHROMOSPHERE, SOLAR	0F
CORONA, SOLAR FLARES		85.51
ENERGY FLUX OF HEAVY NUCLEI		SO
SOLAR FLARE		SO
SPACE VEHICLE SHIELDING - N	A SHERRY ERITTERS	RE
ATTENUATION AND MONOENERGET	IC PROTON BEAMS BY	64790
ALUMINUM SHIELDS NO POLICE	N63+13319 07-23	HI
PHYSICS OF SOLAR CORPUSCULA		19

HIGH ENERGY RADIATION FROM THE SUN - ENERGETIC PARTICLE PLARES, GAMMA RAYS, AND RADIOACTIVITY EFINS-63-9 N63-14328 10-28	SOLAR FLARES AND CORPUSCULAR STREAMS PRODUCING GEOMAGNETIC DISTURBANCES N63-13781 08-28
FLIGHT VEHICLE POWER & MATERIALS - CHEMICAL, SOLAR & NUCLEAR ENERGY - ELECTRIC, ELECTRONIC, MAGNETIC, POLYMERIC & COMPOSITE MATERIALS	SACRAMENTO PEAK FLARES - PART IV, FILAMENT DISAPPEARANCES, FLARE SPRAYS AND LOOP PROMINENCES GRD RES. NOTES-58 N63-14179 09-28
TOR-930/2701-01/TN-1/IIPT 1-4S N63-14539 10-01	HIGH ENERGY RADIATION FROM THE SUN - ENERGETIC PARTICLE FLARES, GAMMA RAYS, AND RADIOACTIVITY EFINS-63-9 N63-14328 10-28
THERMIONIC GENERATOR UTILIZING SOLAR ENERGY APPLICABLE TO SPACE POWER SYSTEM ASD-TOR-62-899 N63-16064 13-06	MAPS OF THE SOLAR CHROMOSPHERE WITH CATALOGS OF FLARES AND SUNSPOTS N63-14544 10-12
CRYSTAL STRUCTURE STUDIES OF MATERIALS FOR POTENTIAL USE IN SOLAR ENERGY CONVERSION AFCRL-63-606 N63-17905 16-07	SOURCE OF SOLAR FLARES - SOLAR ATMOSPHERE OR PHOTOSPHERE N63-14558 10-28
SOLAR SEMIDIURNAL TIDE ENERGETICS IN EARTH ATMOSPHERE	CORRELATION OF SOLAR FLARES IN TIME WITH INDICES OF ACTIVITY OF SOLAR REGIONS - PREDICTION OF SOLAR PROTON EVENTS N63-15121 11-28
AFCRL-63-690 N63-19728 19-21 ENERGY CONVERSION EFFICIENCY IMPROVEMENT IN	PRODUCTION OF SOLAR HIGH-ENERGY PROTON PARTICLES EXPLAINS SOLAR RADIATION FLARE PHENOMENA
DECOMPOSITION OF WATER BY SOLAR ENERGY AFCRL-63-666 19-07	N63-15122 11-21 BIOLOGICAL EFFECT OF SOLAR FLARE RADIATION -
1APROVEMENT OF SOLAR ENERGY CONVERSION IN CADMIUM SULFIDE THIN FILM PHOTOVOLTAIC CELLS N63-20941 21-25	LETHAL DOSE IN RATS NG3-15135 11-16 OBJECTIVES OF ORBITING SOLAR OBSERVATORIES - OSO I RESULTS, ADVANCED OSO I /HELIOS/ SOLAR FLARE
SOLAR ENERGY CONVERSION USING THIN DIELECTRIC FILMS M63-22698 23-28	MISSION NO3-15169 11-32 SUNSPOT RELATION TO GEOMAGNETISM, FLARES AND SOLM
SOLAR EMERGY THERMIONIC /SET/ PROGRAM ELECTRIC ROCKET TEST OUT OF EARTH SHADOW - THOR- AGENA LAUNCH OF SOLAR ELECTRIC TEST SATELLITE	PROTON EFFECT N63-15358 12-21 REPORT ON SOLAR ACTIVITY - FLARES, PROMINENCES,
/SET/ PROGRAM AIAA PAPER-63035 N63-21167 21-06	FILAMENTS, SURGES, AND RADIATIONS IGY SOLAR ACT. REPT. SER22 N63-15553 12-28
SOLAR FLARE CF SUMSPOT COSMIC RAY INTENSITY VARIATIONS DURING 1961 AFCAL-62-675 N63-10107 01-28	SOLAR PROTON ENERGY FROM SEPT. 3, 1960 FLARES AND ALPHA PARTICLE CONCENTRATION N63-15616 12-20 SOLAR SPOTS AND FLARES AS VISIBLE SIGNAL FOR
ENERGETIC PARTICLE PRODUCTION BY SOLAR FLARES - COSMIC RAYS N63-10223 01-28	RELEASE OF ENERGETIC PARTICLES N63-15748 12-28
ATMOSPHERIC LOSS FROM EARTH AND PRODUCTION OF TRITIUM AND HELIUM IN SOLAR FLARES	SOLAR FLARE INDEX 1961 — DURATION, AREA, MAXINA, AND INTENSITY — NCMATH—HULBERT OBSERVATORY IGY SOLAR ACT. REPT21 N63-15964 13-28
N63-10460 01-12 SYMOPTIC FLARE DATA, 1937 TO 1960 AFCRL-62-827 N63-10490 01-28	RADIATION HAZARDS TO MEN IN SPACE - VAN ALLEN BELTS, ELECTROMAGNETIC RADIATION, SOLAR FLARE PROTONS, GALACTIC COSMIC PARTICLES P-2691 N63-16171 13-32
TYPE III SOLAR RADIO HOISE - FREQUENCY POLARIZATION AND DRIFT RATE 80-290 N63-12077 05-05	P-2691 N63-16171 13-32 SOLAR FLARE PROTON IRRADIATION OF DISCOVERER 17 NASA-CR-50033 N63-16678 14-21
NOISE STORMS, SOLAR FLARES, AND TYPE V BURSTS AFCRL-62-1066 N63-12120 05-28	ENERGY DISSIPATION IN TISSUE FOR PROTON RADIATION IN SPACE - COMPARATIVE ANALYSIS OF LET SPECTRA OF FLARE PRODUCED AND FISSION NEUTRON REGOIL PROTONS
THEORY OF RECONNECTION AND ANNIHILATION OF MAGNETIC FIELDS WITH APPLICATION TO SOLAR FLARES AND INTERSTELLAR SPACE N63-12150 05-28	NASA-CR-50044 N63-16679 14-24 PRELIMINARY SOLAR FLARE OBSERVATIONS WITH SOFT X-RAY SPECTROMETER ON ORBITING SOLAR OBSERVATORY
CERENKOV SCINTILLATION COUNTER MEASUREMENTS OF BERYLLIUM, BOROM, CARBON, NITROGEN, OXYGEN IN SUMSPOT COSAIT RADIATION N63-12179 05-28	SATELLITE NASA-TM-X-50023 N63-16708 14-8
EFFECT OF SOLAR FLARES ON ELECTRON DENSITY OF	PROTECTION AGAINST SOLAR FLARE PROTONS N63-17171 15-20
RAD-TR-62-58 N63-12795 06-28 SOLAR PHYSICS - PHOTOSPHERE, CHROMOSPHERE, SOLAR	CORRECTIONS TO NATIONAL BUREAU OF STANDARDS LIST OF INTERNATIONAL GEOPHYSICAL YEAR FLARES IGY SOLAR ACT. REPT. SER.—17A
COROMA, SOLAR FLARES IAS PAPER-63-1 N63-12879 07-05	N63-17703 16-24
ENERGY FLUX OF HEAVY NUCLEI IN JULY 10, 1959 SOLAR FLANE CR-49 N63-12958 07-12	CONDITIONS SOLAR FLARE PHENOMENON AND THEORY OF RECONNECTION AND ANNIHILATION OF HAGNETIC FIELDS
SPACE VEHICLE SHIELDING - MODEL SOLAR FLARE ATTENUATION AND MONOENERGETIC PROTON BEAMS BY ALUMINUM SHIELDS N63-13319 07-23	TIME VARIATION OF SOLAR COSMIC RAYS MEASURED BY
PHYSICS OF SOLAR CORPUSCULAR STREAMS AND EFFECT ON UPPER ATMOSPHERE - SOLAR FLARES, SOLAR	HIGH ALTITUDE BALLOON FLIGHTS DURING SEPTEMBER 3, 1960 SOLAR FLARE EVENT CR-65 N63-10985 18-2
SPECTROGRAPH, AND AURORAE N63-13775 08-29	SCALE MODEL OF SOLAR-FLARE-INDUCED IONIZATION IN

50

SC

SI

S

11

5

G . 08-21

MCES 09-28

C Y 10-21

OF 10-12

10-21 CES SOLM 11-28 LES 11-28 11-16 080 1 11-32 SOLAR 12-21 s, 12-28 AND 12-28

12-28 MA, 15-25

13-12 17

TION A OF TONS 14-24

TORY 14-28 15-28 IST 16-21 16-05

LDS 18-21 8Y R 3+

10-21

11

HAMAII SOLAR FLARE PATROL AFCRL-63-470 SUNSPOTS AND FLARES - RELATIVE POSITIONS N63-20045 MAPS OF SOLAR CHROMOSPHERE AND CATALOGS OF FLARES AND SUNSPOTS - SPECTROHELIOGRAPH ANALYSIS N63-20070 RADIO WAVE EMISSION FROM SOLAR FLARES N63-20683 20-28 EXPORER XII OBSERVATIONS OF MAGNETIC S COSMIC RADIATION, SOLAR PLASHA, VA SCINTILLATION COUNTER RESEARCH IN LNF-63/54 INTERPLANETARY MEDIUM DATA FROM SA PROBES - GALACTIC COSMIC RAY INTER SOLAR MAGNETIC FIELD - SOLAR PLASM	63-21347 21-12 RADIATION AND
SPACE RADIATION - VAN ALLEN BELT, SOLAR FLARES, SOLAR WIND, AND GALACTIC COSMIC RAYS ASD-TOR-62-606 M63-19738 19-28 SOLAR PLASMAS - PARTICLE DENSITY AND MASA-CR-51405 MAS	RADIATION AND NO DISTRIBUTION
HAMAII SOLAR FLARE PATROL AFCRL-63-470 SUNSPOTS AND FLARES - RELATIVE POSITIONS N63-20045 MAPS OF SOLAR CHROMOSPHERE AND CATALOGS OF FLARES AND SUNSPOTS - SPECTROHELIOGRAPH ANALYSIS N63-20070 RADIO WAVE EMISSION FROM SOLAR FLARES N63-20683 20-28 RADIO WAVE EMISSION FROM SOLAR FLARES N63-20683 20-28 EXPORER XII OBSERVATIONS OF MAGNETIC S COSMIC RADIATION, SOLAR PLASMA, VA SCHITLLATION COUNTER RESEARCH IN LNF-63/54 INTERPLANETARY MEDIUM DATA FROM SA PROBES - GALACTIC COSMIC RAY INTER SOLAR MAGNETIC FIELD - SOLAR PLASMA	
SUNSPOTS AND FLARES - RELATIVE POSITIONS N63-20045 19-28 MAPS OF SOLAR CHROMOSPHERE AND CATALOGS OF FLARES AND SUNSPOTS - SPECTROHELIOGRAPH ANALYSIS N63-20070 20-28 RADIO WAVE EMISSION FROM SOLAR FLARES N63-20683 20-28 RADIO WAVE EMISSION FROM SOLAR FLARES N63-20683 20-28 SOLAR MAGNETIC FIELD - SOLAR PLASM N N N N N N N N N N N N N N N N N N N	OSPHERE BOUNDARY
MAPS OF SOLAR CHROMOSPHERE AND CATALOGS OF FLARES AND SUMSPOTS - SPECTROHELIOGRAPH ANALYSIS N63-20070 20-28 RADIO WAVE EMISSION FROM SOLAR FLARES N63-20683 20-28 SCINTILLATION COUNTER RESEARCH IN LNF-63/54 N INTERPLANETARY MEDIUM DATA FROM SA PROBES - GALACTIC COSMIC RAY INTER SOLAR MAGNETIC FIELD - SOLAR PLASM N	63-22449 23-29
RADIO WAVE EMISSION FROM SOLAR FLARES N63-20683 20-28 PROBES - GALACTIC COSMIC RAY INTER SOLAR MAGNETIC FIELD - SOLAR PLASM N	TTALY 63-23194 24-23
	A FLOWS
EMULSION, POWER LAW FOR KINETIC ENERGY SOLAR POWER SYSTEM	CAMPIUM A AND
NUCLEAR RADIATION, COSMIC RAYS, SOLAR FLARES, & ARS PAPER-2498-62	63-10252 01-06
N63-22691 23-23 SUNFLOWER THERMODYNAMIC POWER SYST SOLAR FLARE AND SOLAR RADIATION PREDICTIONS FROM	63-10254 01-06
CALCIUM PLAGE MOVEMENT S1D-63-347 N63-22773 23-29 CESTUM THERMIONIC CONVERTERS AND G SOLAR SPACE POWER SYSTEMS ARS PAPER-2571-62 N	ENERATORS FOR 63-10274 01-06
SOLAR NEBULA FROM IONIZATION OF INTERSTELLAR GAS — SOLAR POWER SUPPLY ORIENTATION SYS STAR FORMATION N63-15297 12-29	TEM 163-14147 09-06
SOLAR OBSERVATORY SA ORBITING SOLAR OBSERVATORY /OSO/ RADIO & RADAR ASTRONOMY - SUGAR GROVE FACILITY, RADIOFREQUENCY ASSIGNMENT AND NATIONAL SOLAR OBSERVATORY PROPOSAL - CONGRESSIONAL HEARINGS REPROPOSAL - CONGRESSIONAL HEARINGS	
N63-12291 05-01 MODIFICATION OF STIRLING CYCLE ENG	INE FOR FLIGHT- 163-15716 12-17
AFCRL-63-470 N63-19780 19-28 SOLAR POWER SYSTEMS USING THERMION ER-5038	IC CONVERSION 163-16100 13-06
ASTRONOMY RESEARCH IN STELLAR AND SOLAR OBSERVATORIES N63-20727 21-05 RELIABILITY OF SOLAR POWER SOURCES	PATER PATER
SOLAR PANEL SPACECRAFT DESIGN HAVING FOUR SOLAR PANELS OF WHICH TWO ADJACENT HINGES HAVE SKEW AXES IN FIXED COORDINATE SYSTEM AFAA PAPER-63-217	
15-KW DYNAMIC POWER SYSTEM FOR SPA	ACECRAFT USE 163-17932 16-06
PHYSICAL PROCESSES IN STARS - STELLAR STRUCTURE, SOLAR PHYSICS, PROTON-PROTON REACTION, AND ENERGY NIMBUS SATELLITE - SOLAR POWER SYS	143.612 3113.61
COMPILATION OF SOLAR-GEOPHYSICAL DATA MARINER II SOLAR PANEL ELECTRICAL	POWER SUPPLY 163-22166 23-06
	SOLAR POWERED 163-22577 23-06
FORECASTING SUNSPOT CYCLES - SOLAR PHYSICS THERMIONIC GENERATORS	103-53381 54-13
INTERPRETATION OF SOLAR RADIATION OBSERVATIONS USING PHYSICAL THEORY & SOLAR STRUCTURE AND ACTIVITY N63-23450 N63-23450	PROTONS BELOW 20 SY TRANSITION AT
SOLAR PLASMA SOLAR PLASMA DATA FROM MARINER II SPACE PROBE, TIME VARIATION, PLASMA DENSITY, ION TEMPERATURE JPL-TH-33-111 PERDENATION OF SALVA MACHESIC SILVAN SELECTION OF SALVAN SELECTI	ON FLUX OBSERVED
BELT REGIONS FROM RING CURRENTS AND SOLAR PLASMA NASA-TN-D-1696	ON AND SOURCES 163-13103 07-28
NASA-CR-50061 N63-18406 17-12 INJUN I SATELLITE OBSERVATIONS OF	SOLAR PROTONS
SDLAR HIGH ENERGY PARTICLES IN RADIATION BELTS N63-19487 19-28 INTERSITY CHANGES OF COSNIC RAYS I PROTON FLUX IN THE INNER SDLAR SY:	AND THE SOLAR
PROPAGATION OF MAGNETIC PERTURBATION CREATED BY EFINS-63-8	

MAGNETIC MOMENT OF MODEL RING CURRENT BELTS AND CUTOFF RIGIDITY OF SOLAR PROTONS N63-14288 10-28	SOLAR ULTRAVIOLET INTERACTIONS WITH ROCKET EXHAUST GASES IN UPPER ATMOSPHERE - ABSORPTION BY IONIZATION OR DISSOCIATION
ENERGY SPECTRA: INTENSITY AND RADIATION OF COSMIC RAYS FROM SOLAR PROTON EVENTS	HAZARD OF SOLAR AND GALACTIC COSMIC RADIATION N63-15117 11-72
N63-15119 11-28 SOLAR PROTON EVENT INFORMATION FROM IONOSPHERIC RADIO OBSERVATIONS N63-15120 11-28	PRODUCTION OF SOLAR HIGH-ENERGY PROTON PARTICLES EXPLAINS SOLAR RADIATION FLARE PHENOMENA N69-15122 11-28
CORRELATION OF SOLAR FLARES IN TIME WITH INDICES OF ACTIVITY OF SOLAR REGIONS - PREDICTION OF SOLAR PROTON EVENTS 11-28	REPORT ON SOLAR ACTIVITY - FLARES, PROMIMENCES, FILAMENTS, SURGES, AND RADIATIONS IGY SOLAR ACT. REPT. SER22 N63-15553 12-28
PRODUCTION OF SOLAR HIGH-ENERGY PROTON PARTICLES EXPLAINS SOLAR RADIATION FLARE PHENOMENA N63-15122 11-28	PRODUCTION OF FREE ELECTRONS IN IONOSPHERIC D-LAYER BY SOLAR AND GALACTIC COSMIC RAYS AND RESULTANT ABSORPTION OF RADIO WAYES
SECONDARY-EMISSION DOSE CONTRIBUTIONS INDUCED BY SOLAR PROTON RADIATION - SPACECRAFT SHIELDING N63-15142 11-16	CR-61 N63-15944 13-28 SOLAR FLARE INDEX 1961 - DURATION, AREA, MAXIMA, AND INTENSITY - MCMATH-HULBERT OBSERVATORY
RADIATION DOSE FROM PRIMARY COSMIC RAYS COMPARED TO DOSE FROM GAMMA RAYS PRODUCED BY PROTON-PROTON REACTIONS IN SOLAR FLARE - SPACECRAFT SHIELD	IGY SOLAR ACT. REPT21 N63-15964 13-28 HEAT BALANCE ON MARS SURFACE - MARS ATMOSPHERE - SOLAR RADIATION ABSORPTION N63-16198 13-29
SUNSPOT RELATION TO GEOMAGNETISM, FLARES AND SOLAR PROTON EFFECT N63-15358 12-28	COSMIC AND SOLAR RADIATION - PROTON ENERGY SPECTRUM NASA-CR-50045 N63-16670 14-28
SOLAR PROTON ENERGY FROM SEPT. 3, 1960 FLARES AND ALPHA PARTICLE CONCENTRATION M63-15616 12-28	SOLAR RADIATION SIMULATION STUDIES AEDC-TDR-63-90 N63-16780 14-28
RADIATION HAZARDS TO MEN IN SPACE - VAN ALLEN BELTS, ELECTROMAGNETIC RADIATION, SOLAR FLARE PROTONS. GALACTIC COSMIC PARTICLES	SOLAR RADIATION SIMULATION - ENVIRONMENTAL CHAMBERS VL-2244-6-0 N63-16793 14-28
P-2691 N63-16171 13-32 COSMIC RAY IN SPACE - GALACTIC RADIATION - SOLAR PROTONS N63-17113 15-28	PLANETARY AERONOMY - COMPILATION OF ABSORPTION SPECTRUM OF SOLAR VACUUM ULTRAVIOLET RADIATION BY ATMOSPHERIC GASES
PROTECTION AGAINST SOLAR FLARE PROTONS N63-17171 15-28	GCA-TR-62-15-N N63-17313 15-67 SPECTRAL ANALYSIS OF COMETARY, SOLAR, AND UPPER
CUTOFF RIGIDITY MEASUREMENT - SOLAR PROTONS AND	ATMOSPHERIC PROCESSES AFCRL-63-648 N63-17540 16-05
ALPHA PARTICLES FROM JULY 10. 1959 SOLAR FLARE CR-48 N63-17330 15-28 SOLAR RADIATION	OPTINUM ORBITAL TRANSFER USING SOLAR RADIATION PRESSURE THRUSTING DEVICE R63SD30 N63-17766 16-29
CF SOLAR ENERGY ELECTROMAGNETIC RADIATION FROM PLASMA OSCILLATIONS AND NARROW-BAND RADIO BURSTS FROM THE SUN N63-10211 01-05	EARTH REFLECTED SOLAR RADIATION UPON SPINNING FLAT PLATE ABOARD A SATELLITE NASA-TN-D-1842 N63-18131 16-06
INSOLATION AND ABSORBED SOLAR RADIATION AT THE ARCTIC SURFACE	CONCENTRATED AND FILTERED SOLAR RADIATION OF SILICON PHOTOVOLTAIC CELL N63-19260 18-06
MAGNETOHYDRODYNAMIC EDDIES & PLASMAJETS AS	SOLAR WEATHER FORECASTING - PREDICTING COSHIC RADIATION FOLLOWING SOLAR FLARES
ACCELERATORS FOR SOLAR PARTICLES JPRS-16590 N63-10978 02-29	N63-19485 19-28 SOLAR HIGH-ENERGY PARTICLE RADIATION MEASURED IN
SPACE SCIENCE - EARTH, SUN, AND STARS - RADIATION N63-11138 03-29	GEOMAGNETIC FIELD BY POLAR CAP ABSORPTION N63-19486 19-28
REVIEW OF INTERACTION BETWEEN GEOMAGNETIC FIELD AND SOLAR CORPUSCULAR RADIATION NL-975 05-05	SOLAR HIGH ENERGY PARTICLES IN RADIATION BELTS N63-19487 19-28
SOLAR COSMIC RAY EVENT - SEPTEMBER 26, 1960 NASA-TN-D-1675 N63-12064 05-28	USSR ABSTRACTS - TELLURIC CURRENTS, METEOROLOGY OF UPPER ATMOSPHERE, SOLAR RADIATION IN IONOSPHERE AND ATMOSPHERIC ELECTRICITY
RADIATION BALANCE OF EARTH ATMOSPHERE - REVIEW OF ENERGY EXCHANGE PROCESSES RELATED TO SPACE ENVIRONMENT N63-12588 Q6-21	TELEMETERING MONOCHROMATOR MEASUREMENTS OF SOLAR 304—A RADIATION AND ITS ATTEMUATION IN UPPER ATMOSPHERE 1942
SOLAR RADIATION MONITORING 1AS PAPER-63-2 N63-12880 07-28	ATHOSPHERE N63-19682 19-12 EMISSION-LINE INTENSITIES IN SOLAR ULTRAVIOLET
EARTH-REFLECTED SOLAR RADIATION ON SPHERICAL SATELLITES IN ELLIPTICAL ORBIT NASA-TN-D-1472 N63-13096 07-28	SOLAR EMISSION LINES IN EXTREME ULTRAVIOLET N63-19696 19-05
SELF ERECTING FLEXIBLE FOAM STRUCTURES FOR SPACE ANTENNAS - RECOVERY AND STRESS-STRAIN PROPERTIES -	PHOTOELECTRONS FROM SOLAR EXTREME ULTRAVIOLET N63-19697 19-12
VACUUM AND SOLAR RADIATION EFFECTS NASA-TN-D-1610 N63-13187 07-08	SOLAR LYMAN-ALPHA EMISSION LINE N63-19699 19-05

ACTORNAMENTO NODERLECAPIALE 8N63-19699 4 19-05

1-28 ES 1-28

3-28 A,

3-28

1-28

-28

BY i-07

i-05

-29

-06

-28
N -28
-28
OF -12
-12
-05
-05

-05

NAVAL RESEARCH LABORATORY LYMAN- NEASUREMENTS	-ALPHA RADIA N63-19700		PLANET ILLUMINANCE - RANGE AND PHASE ANGLE JPL-TR-32-361 N83-13443 Q8-05
SOLAR RADIATION PRESSURE EFFECT ROTATION NASA-TH-D-1855	ON EXPLORER	XII 19-30	SPHERE OF INFLUENCE CONCEPT APPLIED TO SPACE FLIGHTS - DISCUSSION OF OPTIMUM LAUNCH DATES AND TIMES, INITIAL VELOCITIES AND FLIGHT CONDITIONS
ATTITUDE CONTROL OF INTERPLANET. SOLAR RADIATION PRESSURE AIAA PAPER-63-327	ARY SPACECRA M63-20756	FT BY 21-32	RAE-TRANS-1019 N63-13952 D9-29 INTENSITY CHANGES OF COSMIC RAYS AND THE SOLAR PROTON FLUX IN THE INNER SOLAR SYSTEM
SOLAR RADIOFLUX ANALYSIS FOR EN AND RELATIONSHIP TO ATMOSPHERIC AFCRL-63-844	TEMPERATURE		PROPOSED SPACE EXPERIMENTS FOR OBTAINING DATA ON COMETS - POSSIBLE SIGNIFICANCE IN STUDY OF SOLAR SYSTEM EVOLUTION
SOLAR RADIATION & THE IONOSPHER ELECTRICITY & METEOROLOGY OF UP REVIEW OF SOVIET LITERATURE AID-P-63-98		RE -	SAU SPECIAL REPT111 N63-14253 10-29 LIFETIMES OF ICES OF COMMON VOLATILES /WATER, CARBON DIOXIDE, METMANE/ IN SOLAR SYSTEM
SOLAR FLARE AND SOLAR RADIATION CALCIUM PLAGE MOVEMENT	PREDICTIONS	XAD	M63-16702 14-29 ABUNDANCE OF RARE-EARTH ELEMENTS, SCANDIUM, AND
SID-63-347 PHENOMENA IN UPPER ATMOSPHERE -	SOLAR RADIA		YITRIUM IN SOLAR SYSTEM - METEORITIC MATTER AND EARTH CRUST GA-3859 N63-16885 14-18
THE IONOSPHERE & METEOROLOGY OF REVIEW OF SOVIET LITERATURE AID-P-63-89		23-28	SDLAR SYSTEM CONSTANTS SYMPOSIUM - ASTRONOMICAL UNIT DETERMINATIONS
SUN-EARTH RELATIONSHIPS - SOLAR X-RADIATION EFFECTS ON EARTH AT	ULTRAVIOLET		NASA-CR-50394 N63-18371 17-05 MOTION OF SPACE VEHICLES IN SOLAR SYSTEM - SATELLITE ORBIT FOR INTERPLANETARY FLIGHT
INTERPRETATION OF SOLAR RADIATIUSING PHYSICAL THEORY & SOLAR SACTIVITY	ON OBSERVATI	ONS	MAVE EMISSION CONCEPT OF GRAVITY IN THE SOLAR SYSTEM - EINSTEIN THEORY OF MARMONIC STRUCTURE OF
INSTRUMENTATION FOR THE CONTINU SOLAR AND SKY ULTRAVIOLET RADIA USASRDL-TR-2290	TION N63-23785	24-28	SYSTEM N63-18933 18-29 ENVIRONMENT OF PLANETS IN SOLAR SYSTEM - EARTH, HARS AND VEHUS
LAR SYSTEM F GALAXY PHYSICS OF THE SOLAR SYSTEM		01-05	P-2640 N63-1938 18-29 UNMANNED INSTRUMENTED SPACECRAFT FOR EXPLORATION OF SOLAR SYSTEM - NASA PROGRAM
INTERPLANETARY PROCESSES - SOLA FIELDS, COSMIC RAYS	R WIND, MAGN N63-10221	ETIC 01-28	NGS-21136 21-3
SOLAR RADIO ASTRONOMY - SOLAR F	N63-10222	SPHERES 01-05	1-8 BOOSTER CHAIN FOR UNMAMNED SPACE EXPLORATION OF SOLAR SYSTEM NASA-CR-51015 N63-21348 21-3:
METEORITES - ORIGIN AND DISTRIB	UTION N63-10224	01-05	PLANETARY & INTERPLANETARY ENVIRONMENT - SOLAR SYSTEM, PLANETS & THEIR SATELLITES, RADIATION & SPACE DEBRIS HAZARDS
PHYSICS OF THE PLANETS RADAR METHODS OF STUDYING THE E.	N63-10225 ARTHS IONOSP	01-05 HERE	NASA-CR-52076 N63-22865 23-2' SOLAR WIND CF SOLAR ENERGY
RADAR STUDIES OF PLANETARY SURF	1102-11035	01-12	CF SOLAR ENERGY INTERPLANETARY PROCESSES - SOLAR WIND, MAGNETIC FIELDS, COSMIC RAYS N63-10221 01-20
RADAR NETHODS OF STUDYING PLANE		SAN	CORRECTION TO SECOND APPROXIMATION CALCULATION OF GEOMAGNETIC FIELD, SOLAR WIND INTERFACE
RADAR MEASUREMENTS IN THE SOLAR ASTRONOMICAL UNIT		01-05	KP INDEX AND M-REGION GEOMAGNETIC STORMS
LIFE IN THE SOLAR SYSTEM - PRES	N63-10229 ENT EVIDENCE N63-10771	ARREST.	CONDUCTIVE HEATING OF SOLAR WIND AND PARTICLE ACCELERATION
METEOROLOGY, ELECTROMAGNETIC MA SCIENCE, PLASMA PHYSICS, SOLAR	VES, AEROSPA AND PLANETAR	CE	SPUTTERING EFFECTS ON LUNAR SURFACE - SOLAR WIND
STUDIES AFCRL-62-714	N63-11223	03-01	AND MICROMETEORITES N63-15805 13-24 TERMINATION OF SOLAR WIND AND SOLAR MAGNETIC FIELD
PHYSICAL PROPERTIES OF THE MOON AR-26-JPL	N63-11407	03-29	MASA-CR-50153 N63-16726 14-26 EFFECT OF UNIFORM EXTERNAL PRESSURE ON BOUNDARY OF
MAGNETIC FIELD OF THE MOON AND IN AM-3140-MASA	PLANETS	APIA"	GEOMAGNETIC FIELD IN STEADY SOLAR WIND N63-17160 15-24 STANDING SHOCK WAVE HYPOTHESIS AS EXPLANATION OF
RH-3140-NASA SOLAR SYSTEM SCIENCE - 1961 LIT	ERATURE SURV	EY -	OBSERVED STABILITY OF SOLAR WIND-GEOMAGNETIC FIELD INTERFACE - MAGNETOSPHERE BOUNDARY
ABSTRACTS. BIBLIDGRAPHY	N63-12581	06-29	MASA-CR-50152

THEORY OF SOLAR WIND AS HYDRODYNAMIC EXPANSION OF OUTER CORONA DUE TO GRAVITATIONAL BINDING AND THERMALIZATION	WAVE TUBES - SOLENOID-COIL-WOUND TUBE PROCESSED A UNIT PACKAGE N63-14419 10-0
AIAA PAPER-63-253 N63-17798 16-05	ENERGY STORAGE IN SUPERCONDUCTING SOLENDIDS N63-22288 23-6
DYNAMICAL PROPERTIES OF STELLAR CORONAS AND STELLAR MINDS - INTEGRATION OF HEAT FLOW EQUATION - THERHOCOMDUCTIVITY NASA-CR-50463 17-05	CALCULATION OF MAGNETIC FIELD DISTRIBUTION OF FINITE HELICAL SOLENOID NASA-TN-D-1993 N63-22601 23-2
SPACE RADIATION - VAN ALLEN BELT, SOLAR FLARES, SOLAR WIND, AND GALACTIC COSMIC RAYS	HIGH FIELD MAGNET SYSTEMS - TWO REGION SOLENGIOS N63-23286 24-4
ASD-TDR-62-606 N63-19738 19-28 INTERPRETATION OF K SUB P INDEX AND M-REGION GEOMAGNETIC STORMS - MAGNETOPAUSE-SDLAR WIND	DESIGN OF TWO REGION SOLENDIDS FOR HIGHER MAGNET EFFICIENCY & REDUCTION OF STRESS LEVEL - HIGH FIELD CRYOGENIC MAGNET N63-23287 24-
INTERACTION N63-20633 20-29 SIMULATION OF THE EFFECT OF SOLAR WIND BOMBARDMENT ON THE LUNAR SURFACE	300,000 GAUSS TWO REGION ALUMINUM SDLENDID CRYOGENIC MAGNET FOR INTERMITTENT OPERATION N63-23288 24-
NASA-CR-51082 N63-21111 21-29	WIND AND A STORY AND
SOLAR MAGNETIC FIELD FORMED BY RADIAL SOLAR WIND N63-21277 21-28	VERSATILE FIELD ION MICROSCOPE - APPLICATIONS TO SOLID NITROGEN COOLING & GRAIN BOUNDARIES
CALCULATION BY MOMENT TECHNIQUE OF PERTURBATION OF	- DESIRED A STANCE OF THE PROPERTY OF THE PROP
GEOMAGNETIC FIELD BY SOLAR WIND N63-22874 23-12	SOLID PROPELLANT SOLID PROPELLANT GRAIN DESIGN E173-62 N63-10506 OL-
ILAR X-RAY PROPORTIONAL COUNTER SPECTROMETER FOR SOLAR X-RAY MEASUREMENT - DESIGNED TO BE MOUNTED ON AEROBEE HI ROCKET TELEMETERING MONOCHROMATOR	NITROHONOMERS AND THEIR APPLICATION TO SOLID SMOKELESS PROPELLANTS N63-10600 62-
D-REGION IONIZATION BY SOLAR X-RAYS	EFFECT OF COMPOSITION ON COMBUSTION OF SOLID PROPELLANTS DURING A RAPID PRESSURE DROP NASA-TN-0-1559 02-10627 02-
N63-19694 19-12	MECHANICAL PROPERTIES OF SOLID PROPELLANTS
SOLAR X-RAYS - ROCKET MEASUREMENTS N63-19701 19-28	N63-10701 02
LOER F FACTENER	BURNING RATE OF PERCHLORATE-POLYESTER, CASTABLE SOLID PROPELLANTS N63-10766 02
EDERING F BONDING	CALORIMETER FOR THE SPECIFIC HEAT OF SOLID PROPELLANTS P-62-20 N63-10866 02
F FLUX F JOINT INSPECTION OF SOLDERED ELECTRICAL JOINTS	SOLID ROCKET PROPELLANT SYSTEM FOR EXTENDED STORAGE IN SPACE ENVIRONMENT E194-62 N63-10880 02-
EK/ARD-ED-866 N63-11799 04-17 DYNAMICS OF METTING OF LIQUID METALS IN BRAZING AND SOLDERING	SOLID PROPELLANT OXIDIZER SYNTHESIS, FLUORINE COMPOUNDS MRB-2022Q1
WAL-TR-650/1 N63-12304 05-18	CRAVITATIONAL STREETS IN A COLID BROBELLANT
METAL FIBER REINFORCED SOLDERING TAPE AND BEARINGS OF LEAD-TIN ALLOYS	GRAVITATIONAL STRESSES IN A SOLID PROPELLANT GRAIN PIDAL-660 N63-11187 03
ARF-B765-25 N63-12801 06-18	RELATIVE IGNITABILITY OF SOLID PROPELLANTS EXPO
MILD STEEL FIBER REINFORCED LEAD-TIN ALLOYS FOR PRODUCTION OF SOLDERING TAPE AND STRUCTURAL	TO CHLORINE TRIFLUORIDE NASA-TN-D-1533 N63-11616 04
BEARINGS ARF-8765-28 N63-17131 15-18	INTERNAL DISPLACEMENTS IN SOLID-PROPELLANT GRAIUSING CYLINDRICAL, UNFILLED-URETHANE SPECIMENS
RELIABILITY EVALUATION AND ENVIRONMENTAL TESTING OF PRINTED-WIRING-BOARD SOLDERED JOINTS N63-17286 15-17	UNDER UNIAXIAL COMPRESSION N63-11931 04 MECHANICAL PROPERTIES OF SOLID PROPELLANTS -
EFFECT OF DIP SOLDERING AT VARIOUS TEMPERATURES & TIMES ON VARIOUS PRINTED CIRCUIT BOARDS & SOLDER-	POLYBUTADIENE AND POLYURETHANE COMPOSITIONS N63-12110 05
RESIST MATERIALS PP-T-9672-2 N63-22349 23-09	THERMODYNAMICS OF BERYLLIUM PROPELLANT COMBUSTI PRODUCTS U-1988 N63-12207 05
BRAZING OF TITANIUM WITH RAPID HEATING - SOLDERING OF TITANIUM ALLOYS DURING RAPID HEATING IN SALT BATHS	SOLID PROPELLANTS USING TWO POWDERS HAVING DIFFERENT BURNING RATES IN THE SAME GRAIN
JPRS-21437 N63-22966 23-18	N63-12464 06
F COIL	ANALYSIS OF SOLID PROPELLANT GRAIN DESIGN E13-63 N63-13566 08
ADIABATIC APPROXIMATION FOR DYNAMICS OF A PARTICLE IN THE MAGNETIC FIELD OF A TAPERED SOLENOID SLAC-4 N63-11869 04-23	EFFECTS OF MOISTURE ON THE DYNAMIC MECHANICAL PROPERTIES OF AMMONIUM PERCHLORATE-POLYURETHANE
SIMULATION OF DIPOLE FIELD WITH SOLENDID	PROPELLANTS JPL-TR-32-389 N63-13768 OB
SAKEABLE ELECTROMAGNET FOR HIGH POWER TRAVELING	CONFORMAL MAPPING AND STRESSES IN SQLID PROPELLIGRAINS USING 18M 7090

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05-26

TION 05-26

06-26

08-26

NE.

08-26

LLANT

PROCESS FOR NITROCELLULOSE PROPELLANT IN DENSITY RANGE 0.8 TO 1.3 G/CC 81-78-1487 N63-13948 09-17	SHOCK WAVES ON HYPERVELOCITY FLOW IN A SOLID PROPELLANT DRIVEN TUNNEL FOR SHOULATING CONDITIONS OF SHOCK LOADING ON REENTRY VEHICLES DASA-1376 N63-21020 21-26
SOLID PROPELLANT ROCKET IGNITION SYSTEMS - PART 4,	COMBUSTION INSTABILITY RESEARCH IN SOLID ROCKET PROPELLANTS BRL-MR-1489 N63-21033 21-26
PHYSICAL, CHEMICAL & AERODYNAMIC CHARACTERISTICS MOLTA-62-189 NO3-13983 09-26 SOLID PROPELLANT X248 ROCKET ENGINE - HANDLING AND	SUPPLEMENTING POSITIVE PRESSURE PULSE IN STANDARD SHOCK TUBE UTILIZING SOLID PROPELLANTS DASA-1369 N63-21112 21-26
OPERATING INSTRUCTIONS AND/M-195/REV./ CONFORMAL MAPPING AND STRESS DETERMINATION IN	CONTINUOUS IGNIZATION SENSOR TO STUDY DETONATION AND PRE-DETONATION PHENOMENA IN SOLIO PROPELLANTS AND EXPLOSIVES
SOLID PROPELLANT ROCKET GRAINS S-38 N63-14303 10-26	HOLTR-63-136 (1977) HOLTE CO. 10 000001 ANY
SOLIO PROPELLANT INVESTIGATION - DEFORMATION AND VOLUME CHANGE, BINDER-DXIDANT INTERFACE AND FAILURE HODES, PROPELLANT MICROSTRUCTURE	PLASTIC & METAL MOLDS FOR SOLID PROPELLANT RESEARCH PA-TM-1250 M63-22977 23-19 SOLID PROPELLANT IGNITION
N63-14617 10-26 DETONATION BEHAVIOR OF SOLID PROPELLANTS N63-14740 11-26	PROPELLANT IGNITION EFFECT OF COMPOSITION ON COMBUSTION OF SOLID PROPELLANTS DURING A RAPID PRESSURE DROP NASA-TN-D-1559 M63-10627 02-26
RADIATION AND HEAT EFFECTS ON SOLID PROPELLANT DECOMPOSITION RAI-314 N63-14852 11-26	MINIMIZING SOLID PROPELLANT INITIATION HAZARDS DURING FABRICATING PROCESSES ABL/Z-48 N63-12255 05-17
COMBUSTION INSTABILITY IN SOLIO FUEL ROCKETS - ACOUSTIC RESONANCE N63-15577 12-26	INFRARED RADIATION AND TEMPERATURE MEASUREMENTS IN SOLID PROPELLANT FLAMES - ARCITE-368 TR-800-5
ALUMINUM BURNING IN SOLID PROPELLANT FOR ROCKET ENGINES - COMBUSTION INSTABILITY N63-15588 12-26	SOLID PROPELLANTS RED - EFFECTS OF CATALYSTS ON COMPOSITION OF COMBUSTION GASES N63-12402 06-26
DEFORMATION AND STRESS CALCULATIONS FOR AXIALLY EXCELERATED CASE—BONDED SOLID PROPELLANT GRAINS OF FINITE LENGTH N63-15894 13-26	VISUALIZATION OF COMBUSTION OF SOLID GRAIN PROPELLANT INSIDE ROCKET ENGINE
CHEMICAL SYNTHESIS OF NEW OXIDIZERS FOR SOLID PROPELLANTS ARB-2022Q3 N63-16374 14-26	FLASHDOWN IN SOLID PROPELLANTS NOTS-TP-3009 N63-12660 06-26
APPLICABILITY OF SOLID PROPELLANTS TO HIGH PERFORMANCE LAUNCH VEHICLES	EFFECTS OF OSCILLATING PRESSURE FIELD ON SOLID PROPELLANT COMBUSTION AND MEASUREMENT OF RESULTING ENTROPY WAVES
INTERNAL DISPLACEMENT AND STRESS IN SOLID	AERONAUTICAL ENG. REPT635A N63-14098 09-26
FLATION RETWEEN STRESS. STRAIN RATE. AND	SOLID PROPELLANT COMBUSTION MECHANISM STUDIES AERONAUTICAL ENG. REPT446N N63-14243 10-26
TEMPERATURE IN BEHAVIOR OF SOLID PROPELLANTS N63-17390 15-26 SOLID PROPELLANT TECHNIQUE FOR ELECTRON GENERATION	FLUCTUATION WITH BURNING OF SOLID COMPOSITE PROPELLANTS - ANALYSIS OF COMBUSTION INSTABILITY
N63-17430 15-26 STRUCTURAL ANALYSIS OF VISCOELASTIC SOLID PROPELLANT GRAINS	POLYURETHANE SOLID PROPELLANT FINITE WAVE AXIAL COMBUSTION INSTABILITY
IIAA PAPER-63-284	CARDE-TH-1459/62 N63-15181 11-26 COMBUSTION INSTABILITY OF BURNING SOLID PROPELLANT
HAWK ROCKET ENGINE - EFFECTS OF USING DESIGNATOR- HEATHER SEAL FOR DRYING POLYURETHANE SOLID PROPELLANT	AND ASSOCIATED RESEARCH TG-371-48 N63-15576 12-26 MEASUREMENT OF OSCILLATORY BURNING IN SOLID
IK-TR-63-15 N63-19000 18-27 THENICAL REACTIONS BETWEEN SOLID PROPELLANT GASES AND NOZZLE MATERIALS OF GRAPHITE AND REFRACTORY	PROPELLANT COMBUSTION ZONE - COMBUSTION INSTABILITY M63-15578 12-26
NETAL CARBIDES N63-19792 19-26 OLID PROPELLANTS - BURNING RATE, IMPETUS, AND	RESONANT TUBE TECHNIQUE FOR ACQUITIC ADMITTANCE MEASUREMENT OF SOLID PROPELLANT SURFACE COMBUSTION 1857ABILITY
COVOLUME INC-1872 N63-20077 20-06 RECHANICAL PROPERTIES OF SOLID PROPELLANTS AND	ACOUSTIC ADMITTANCE MEASUREMENTS OF BURNING SOLID PROPELLANTS FOR COMBUSTION INSTABILITY VALUES NO.3-15580 12-24
APPROXIMATE LAPLACE TRANSFORM INVERSION METHODS IN VISCOELASTIC STRESS ANALYSIS N63-20547 20-26	USE OF MAWARDI APPARATUS TO MEASURE SURFACE
THERMAL STRESS STUDY OF CASE BONDED SOLIO	PROPELLANTS - CONSUSTION INSTABILITY N63-15581 12-28
EPC-578-F-1 N63-20830 21-26 THERMAL STRESS OF SOLID PROPELLANT GRAINS UNDER MARIOUS ENVIRONMENTAL CONDITIONS	EFFECT OF STORAGE ON COMBUSTION STABILITY AND ACOUSTICS OF SOLID PROPELLANTS - COMBUSTION INSTABILITY NA3-15582 12-24
AGES-62-19A N63-20831 21-26	ACOUSTIC ADMITTANCE OF BURNING SOLID PROPELLANT

NA3-18535

17-24

17-26

INTERACTION BETWEEN SOLID AND GAS PHASES DURING OSCILLATORY BURNING OF SOLID PROPELLANTS — COMBUSTION INSTABILITY N63-18534 17-24 SURFACE - COMBUSTION INSTABILITY N63-15583 12-26 TRANSIENT METHOD OF MEASURING ACOUSTIC IMPEDANCE OF SOLID PROPELLANT - COMBUSTION INSTABILITY LINEAR PYROLYSIS EXPERIMENTS - FLUID MECHANICS -N63-15584 12-26 EQUATIONS FOR PYROLYSIS RATE DETERMINATIONS SOLID PROPELLANT COMBUSTION SOLID PROPELLANT COMBUSTION - SCATTERING OF SOUND INFLUENCE OF VERY HIGH PRESSURE /1000 - 23000-PSI/ ON DEFLAGRATION RATE OF PURE AMMONIUM PERCHLORATE BY GASEOUS FLAMES - COMBUSTION INSTABILITY 12-26 COMBUSTION STABILITY TESTS OF SOLID PROPELLANTS BY OSCILLATORY STRAND BURNER N63-15586 12-26 THEORY OF SELF HEATING AND APPLICATION TO AMMONIUM PERCHLORATE-CUPROUS OXIDE SYSTEM - IGNITION TIME N63-18537 17-26 LOW FREQUENCY COMBUSTION INSTABILITY IN SOLID PROPELLANTS - ABSTRACTS N63-15587 AEROTHERMOCHEMICAL ANALYSIS OF EROSIVE BURNING OF SOLID PROPELLANT - HOT GAS STREAM EFFECTS ON PULSE TECHNIQUE FOR ASSESSING FINITE WAVE AXIAL COMBUSTION INSTABILITY OF ALUMINIZED AMMONIUM PERCHLORATE-POLYURETHANE SOLID PROPELLANT N63-15589 12-26 ACOUSTIC AMPLIFICATION AND ATTENUATION BY BURNING SOLID PROPELLANTS - COMBUSTION INSTABILITY RPE-TN-263 N63-15590 ANALYSIS OF FLUID DYNAMIC MODEL FOR OBTAINING TIME DEPENDENT THEORY FOR EROSIVE BURNING OF SOLID PROPELLANTS - COMBUSTION INSTABILITY NONLINEAR ASPECTS OF GAS AND WAVE DYNAMICS SOLID PROPELLANT ROCKET ENGINES - COMBUSTION INSTABILITY N63-15592 12-26 OSCILLATORY BURNING IN SIDE-RENTED CYLINDRICAL CHAMBER FOR STUDYING BURNING OF END-BURNING PROPELLANT GRAINS - COMBUSTION INSTABILITY 12-26 ENGINES MECHANICAL BEHAVIOR OF SOLID PROPELLANTS SUBJECTED TO SMALL OSCILLATING DEFORMATIONS - COMBUSTION
INSTABILITY N63-15594 1 MEASUREMENT OF DYNAMIC SHEAR COMPLIANCE OF ALUMINIZED POLYBUTADIENE-ACRYLIC ACID-ACRYLONITRILE PROPELLANT - COMBUSTION INSTABILITY WAL-TR-766.41/2-3 NA3-15595 COMBUSTION INSTABILITY OF NITRASOL AND POLY-URETHANE-AMMONIUM PERCHLORATE PROPELLANTS -CONGRESSIONAL HEARINGS EFFECT ALUMINUM ADDITIVE, BURNING RATE STUDIES N63-15596 12-26 COMBUSTION INSTABILITY OF SOLID PROPELLANTS - SUPPRESSION OF UNSTABLE BURNING NASA-TN-D-1279 N63-15597 12-26 HIGH SPEED DATA ON DETONATION AND INSTABILITY PHENDMENA IN SOLID PROPELLANT COMBUSTION CHAMBER N63-15598 12-26 QUANTITATIVE EVALUATION USE OF MODULATIONS IN INFRARED RADIATION AS HEANS OF INVESTIGATING SOLID PROPELLANT ROCKET ENGINE-COMBUSTION INSTABILITY N63-15599 12-12-26 TRACER METHOD FOR BURNING RATE DETERMINATION IN SOLIO PROPELLANTS USNRDL-TR-602 RMD-5502-F N63-16405

N63-18538 COMBUSTION INSTABILITY OF SOLID PROPELLANTS -STABILITY GRADING N63-19101 SOLID PROPELLANT IGNITION - GAS & SOLID PHASE REACTIONS, & HETEROGENEOUS REACTIONS AT GAS-SOLID AFRONAUTICAL ENG. REPT.-661 N63-21713 SOLID PROPELLANT ROCKET ENGINE ROCKETS IN MASA SPACE PROGRAM N63-10232 01-31 PREDICTION OF HEAT TRANSFER & ABLATION IN AFT-CLOSURE OF SOLID PROPELLANT ROCKET ENGINE N63-10382 01-13 STRUCTURAL INSTABILITY OF SOLID-PROPELLANT ROCKET NA3-10854 02-33 SCINTILLATION DETECTION SYSTEM FOR THE INSPECTION OF LARGE SOLID-PROPELLANT ROCKET ENGINES PYROLYTIC REFRACTORY MATERIALS FOR SOLID-FUEL ROCKET ENGINE - VAPOR DEPOSITION N63-11441 03-27 DEVELOPMENT OF LARGE SOLID PROPELLANT BOOSTERS N63-11725 04-01 USE OF HIGH-PERFORMANCE AIRCRAFT AS FIRST-STAGE BOOSTER FOR AIR-LAUNCHING SOLID FUEL ROCKET OPERATIONAL ASPECTS N63-12192 05-04 DEVELOPMENT OF LARGE SOLID PROPELLANT BOOSTERS LIQUID PROPELLANTS FOR SATURN AND NOVA VEHICLES N63-12293 DYNAMICS OF SOLID PROPELLANT ROCKET ENGINES N63-12339 CONTINUOUS SCAN SCINTILLATION SYSTEM FOR INSPECTION OF TUNGSTEN BILLETS FOR NOZZLES IN SOLID PROPELLANT ROCKET ENGINES N63-12474 06-17 EXPLOSIVE FORMING OF CLOSURES FOR SOLID-PROPELLANT ROCKET ENGINE CASES N63-12492 06-24 EROSION RESISTANCE AND FAILURE MECHANISMS OF NOZZLE MATERIALS IN SMALL SOLID-PROPELLANT ROCKET ENGINE NASA-TH-D-1658 07-27 N63-12931 SEGNENTED ROCKET HOTOR CASE FOR 160-240 INCH SOLID PROPELLANT ROCKET ENGINE 07-17 SH-42911 N63-12938 RADIO-ATTENUATION MEASUREMENT /RAM A1/ TEST, FOUR-STAGE SOLID-PROPELLANT ROCKET VEHICLE -PERFORMANCE AND DESIGN MASA-TH-D-1611 N63-13548 08-31 REFRACTORY METAL ALLOYS OF PYROLYTIC GRAPHITE FOR SOLID PROPELLANT ROCKET ENGINE COATING WAL-TR-766.41/3 M63-15352 12-2

VIRTUAL SPECIFIC ACOUSTIC ADMITTANCE MEASUREMENTS OF BURNING SOLID PROPELLANT SURFACES BY RESONANT TUBE TECHNIQUE - COMBUSTION INSTABILITY

ACOUSTIC IMPEDANCE IN BURNING SOLID PROPELLANT

SOLID PROPELLANT IGNITION - IGNITER BALLISTICS FLAME PROPAGATION N63-17534 1

SOLID FUEL COMBUSTION, DETONATION AND DECOMPOSITION BY FLAME ANALYSIS

N63-17511

N63-17542 16-26

N63-18532 17-26

16-26

E104-63

RING

17-26

00-PSI/ ORATE 17-26

MONEUM TIME 17-26

18-26 OL 10 22-24

01-31 01-13 CKET 02-33 TION 02-27

3-27 4-01 E 18 5-04 5-01

5-33

-17 ANT -26 17.88 -27 110 -17 JR-31 R

27

SULJECT THOEX	3014360018-51018
FLEXIBLE POLYMERS FOR THERMAL INSULATION IN SOLID MOPELLANT ROCKET ENGINES N63-15377 12-27	FUEL CHEMISTRY
ELECTRODEPOSITION OF CHRONIUM CERMETS FOR COATING OF SOLIO PROPELLANT ROCKET MOZZLES N63-15493 12-17	FTD-TT-62-1417/1626364 M63-19645 19-26 IGNITION SYSTEM FOR TERRIER MISSILE SOLID PROPELLANT ROCKET ENGINE ABL/X-87 M63-19715 19-27
SOLID ROCKET MOZZLE COOLING WITH LIQUID LITHIUM N63-15546 12-27	SERVICE TRUBBLE TANGER OF SUPERIOR SUPERIOR OF THE SUPERIOR SERVICES
DEVELOPMENT OF PYROLYTIC REFRACTORY MATERIALS FOR SOLID-FUELED ROCKET ENGINES	PROPELLANT ROCKET ENGINES UTC-2015-FR DETERMINATION OF TEMPERATURE HISTORY OF SOLID
FEASIBILITY OF USING LIQUID ROCKET ENGINE COOLING	PROPELLANY ROCKEY ENGINE MOZZLE N63-22539 23-02
TECHNIQUES FOR COOLING SOLID ROCKET NOZZLES - HEAT TRANSFER COEFFICIENTS FOR UNCOOLED NOZZLES N63-15836 13-26	BEHAVIOR OF MATERIALS EXPOSED TO SOLID PROPELLANT ROCKET ENGINE EXHAUST - MOZZLE DESIGN RTD-TDR-63-1038 N63-22733 23-27
PLEXIBLE POLYMERS AS THERMAL INSULATION IN SOLID PROPELLANT ROCKET ENGINE - PHENGL, EPOXY, AND FURAN RESINS 13-07	LIQUID AND SOLID ROCKET OPERATION PROBLEMS IN SPACE ENVIRONMENT MASA-CR-52044 N63-22864 23-27
DEVELOPMENT OF FLEXIBLE POLYMERS AS THERMAL INSULATION IN SOLID-PROPELLANT ROCKET ENGINES - STUDY OF EPDXY AND PHENOL RESINS	HIGH-STRENGTH, LIGHTMEIGHT, TITANIUM ALLOY SOLID
N63-15877 13-07 SPACE SCIENCE - SOLID PROPELLANT ROCKET CLUSTERS	1163-10670 42-1
FOR SATELLITE CARRIER SYSTEMS	THERMODYNAMICS OF INTERSTITIAL SOLID SOLUTIONS WITH REPULSIVE SOLUTE-SOLUTE INTERACTIONS MRL-127 MRL-127 MRL-227 MRL-227 MRS-21770 MRS-2
HEAT TRANSFER OF SOLID PROPELLAAMT ROCKET ENGINE EXHAUST GAS TO MOLYBDENUM NOZZLE THROAT INSERT HOLTR-62-72	SOVIET STUDIES ON METALLIC COMPOUNDS - CHEMISTRY OF YTTRIUM CARBIDES, AND PLASTIC DEFORMATION OF SOLID SOLUTIONS
SOLID PROPELLANT ROCKET ENGINES - MATERIAL TESTING FOR NOZZLE EFFICIENCY - 163-17239 15-33	JPRS-17345 M63-12230 05-07 MECHANISM OF PLASTIC DEFORMATION IN SOLID
FITTING SOLID PROPELLANT ROCKET ENGINE INTO SPACE VENICLE DESIGN AIAA PAPER-63-260 N63-17804 16-30	SOLUTIONS - RELATIONSHIP OF RELAXATION COEFFICIENT TO ALLOY HARDNESS AND RESISTANCE TO PLASTIC FLOW M63-12232 05-07
TITANTUM ALLOYS FOR SOLID FUEL ROCKET MOTOR CASES PMA-2156 N63-18144 16-17	THERMODYMANICS OF SOLID SOLUTIONS & INTERMETALLIC COMPOUNDS DEFINING FREE ENERGY - STABILITY
ALGOL SOLID ROCKET ENGINE DEVELOPMENT - IGNITER SQUIB TEST PROGRAM	ASD-TR-61-445, PT- 11 ROLTA JINURA M43-14800 11-13
MASA-CR-50629 N63-18205 16-27 ALGOL SOLID ROCKET ENGINE DEVELOPMENT FOR SCOUT	SITE OF INTERSTATIAL SOLID SOLUTION FORMATION IN . BODY CENTERED CUBIC CRYSTAL LATTICE UCAL-7104 No.3-15101 11-10
VEHICLE - BURNING RATE STUDY NASA-CR-50628 N63-18206 16-27	ALLOYS AND DIFFUSION COUPLES OF YTTRIUM & SCANDIUM WITH GROUP V AND VI REFRACTORY ELEMENTS - SOLID
ALGOL SOLID-PROPELLANT ROCKET ENGINE PROGRAM - STATIC FIRING, IGNITER-RECOVERY NASA-CR-50652 N63-18207 16-27	SOLUTIONS ASD-TDR-63-204 N62-18627 17-18
ALGOL SOLID-PROPELLANT ROCKET ENGINE PROGRAM - STATIC FIRING, IGNITER-RECOVERY	LOCAL ORDER & SOLID-SOLUTION STRENGTHENING IN HIDBIUM ALLOYS ASD-TOR-63-547 M63-29112 24-18
MASA-CR-50635 ARBYLAND - SOTTION M63-18208 2 16-27	SOLID STATE SPIN MAVE ELECTRON INTERACTION IN MAGNETIC SOLIDS
OESIGM, SYSTEM REQUIREMENTS & DEVELOPMENT PLANS FOR LARGE SOLID PROPELLANT LAUNCH VEHICLES NASA-CR-50575 AND LARGE STREET NASA-2833 17-27	NAS-10159 01-23 ELECTRONIC STRUCTURE OF SOLIDS DETERMINED FROM THE
COMBUSTION INSTABILITY - RESPONSE OF SOLIO PROPELLANT COMBUSTION ZONE TO MORNALLY INCIDENT ONE-DIMENSIONAL PRESSURE MAYES	ANGULAR CORRELATION OF PHOTOMS ENLITED FROM POSITRON ANNIHILATION 15-299 No1-0752 02-25
SCALING IN UNSTABLE COMBUSTION PROCESSES OF SOLID PROPELLANT ROCKET ENGINES NO3-18592 17-23	SPECTROSCOPY OF SOLIO STATE SURFACES CONTAINING ASSORBED MOLECULES, GERMANIUM, SILICOM AFCRL-62-585 M63-10759 G2-25
ELECTRON CONCENTRATION MEASUREMENT TECHNIQUES IN EXHAUST OF SOLID FUEL ADOKET ENGINE METH MICROMAVE ADDIATION - MICROMAVE SPECTRUM STUDY MOS-18715 17-24	ANALOG COMPUTATION OF TEMPERATURE DISTRIBUTION IN SOLIDS WITH ELECTRICAL MEAT-GENERATION AND TEMPERATURE-DEPENDENT PROPERTIES ANL-6645 N6D-11751 04-13
PLASMA COMPOSITION IN THE PLUME OF A SOLID PROPELLANT ROCKET ENGINE CONTAINING CESSUM MITRATE	BEHAVIOR OF SOLIDS UNDER PRESSURE - N-RAY ANALYSIS HA3-12687 04-25
AND POTASSIUM MITRATE RAD-TM-63-14 100813 MSM 40 2124 N63-19186 18-27 MATERIALS PROBLEM FOR THROAT INSERTS OF HIGH	ABSTRACTS ON SOLID STATE PROPERTIES OF BISHUTH AND TELLURIUM ALLOYS AND COMPOUNDS SB-62-62 N63-13695 08-25
ENERGY SOLID PROPELLANT ROCKETS IDA-TR-62-19 MINE STAGGERM OS N63-19272 18-26	SOLID STATE AND MOLECULAR THEORY, BENZENE, METHAME SCATTERING, SYMMETRY, ENERGY BANDS, CRYSTALLINE
The state of the s	

PROPELLANT OXIDIZERS FOR AIR-BREATHING ENGINES &

SOLIO STATE AND MOLECULAR THEORY, BENZEME, METHANE SCATTERING, SYMMETRY, EMERGY BANDS, CRYSTALLINE STRUCTURES, LATTICE VIDBATION & ELECTRONIC EFFECTS

	THE RESERVE THAT REPORTED AND THE PARTY WAS ADDRESS.
N63-14482 10-25	01-00 H1 NO 11 NO 11 10 10 10 10 10 10 10 10 10 10 10 10
SOLID STATE DIFFUSION BONDING OF TUNGSTEN TO TUNGSTEN UNDER SURFACE PRESSURE AT HIGH	SOLID STATE DEVICES, CIRCUITS RADC-TDR-62-547 N63-13705 OB-09
TEMPERATURE LA-2751 963-14892 11-17	OVERLOAD PROTECTION IN SOLID STATE POWER SUPPLY
NEUTRON THERMALIZATION IN SOLIDS - NEUTRON SCATTER BY ATOMS WHOSE MOTIONS ARE RESTRICTED BY CRYSTAL BONDS - ENERGY TRANSFER APPROXIMATIONS	M63-14170 09-06 BIBLIOGRAPHY OF SOLID STATE MASER MATERIALS, GAS MASER, AND OPTICAL MASER
LA-2834 N63-15219 11-23	ASD-TDR-62-1026 11-25
DESIGN OF DIFFERENTIAL CALORIMETER FOR MEASUREMENT OF HIGH TEMPERATURE HEATS OF SOLIO STATE REACTIONS UCRL-10631 12-24	DESIGN OF HIGH FREQUENCY SILICON CARBIDE SOLID STATE DEVICE FOR HIGH TEMPERATURE - SEMICONDUCTORS AFCRL-63-61 N63-14996 11-09
MICROMINIATURIZED SOLID-STATE MICROWAVE CIRCUIT UTILITY AS GUIDED MISSILE COMPONENT NAVMEPS-8144 N63-15717 12-09.	ELECTRON BEAM AND SOLID STATE DEVICES - PLASMA MAYES AND PLASMA GENERATION MDL-Q3
SOLID STATE MICROWAVE DELAY LINE RADC-TOR-63-149 M63-17116 15-25	SOLID STATE CIRCUIT PROGRESS - DESIGN OF APPARATUS, LINE WIDTH AND ANISOTROPY MEASUREMENTS
SINTERING AND SINGLE CRYSTAL PRODUCTION OF ALUMINUM DXIDE AND MAGNESIUM OXIDE POWDERS - SOLID	RADC-TDR-63-83 12-0)
STATE REACTIONS ASO-TOR-62-732 N63-17304 15-10	ELECTRIC CONDUCTION PROPERTIES OF ORGANIC COMPOUNDS FOR SOLID STATE AND ENERGY CONVERSION
SOLID STATE DEFECT STRUCTURES - SEMICONDUCTOR ANALYSIS N63-17350 15-25	DEVICES DCAS-TDR-62-19 N63-15705 12-87
CHERICAL AND CRYSTAL DEFECTS IN SEMICONDUCTORS	ARMY INSTRUMENTATION PROGRAM - ORGANIC FILM TURNEL EMISSION - SOLID STATE TRIODE
AFCRL-63-74 N63-17495 16-25	THESE SYSTEM TO MANAGEMENT AND STREET AND ASSESSED.
MICROWAVE RESEARCH - ELECTROMAGNETISM, SOLID STATE AND MATERIAL RESEARCH, MICROWAVE CIRCUITRY,	SOLID-STATE SELF-SCANNING DISPLAY DEVICE RADC-TDR-62-601 N63-15829 13-25
NETWORK THEORY, AND ELECTRONICS R-452-23-63 M63-17522 16-01	DEVELOPMENT OF FAST SOLID STATE ULTRAVIOLET PHOTODETECTOR ASD-TOR-62-978 N63-16404 14-23
RARE EARTH, HAFNIUM, THORIUM, & REFRACTORY HIGH-	DE LOUIS DE LA PRINCIPA PROCESS PROCESS DE PAREZO DE LA PRINCIPA DEL PRINCIPA DE LA PRINCIPA DE LA PRINCIPA DEL PRINCIPA DE LA PRINCIPA DEL PRINCIPA DE LA PRINCIPA DE LA PRINCIPA DE LA PRINCIPA DE LA PRINCIPA DEL PRINCIPA DE LA PRINCIPA DEL
TEMPERATURE ALLOYS, SOLID STATE DIFFUSION BONDING, AND MELTING PROCESSES USBM-U-1057 M63-19613 19-18	APPLICATION OF BARRIER SOLID STATE DETECTORS TO SPECTROMETRIC ANALYSIS OF SELF-ABSORPTION OF ALPHA PARTICLES AND FISSION FRACMENTS
APPLIED MECHANICS. SOLID STATE & QUANTUM EFFECTS.	EUR-222.F N63-17194 15-25
SPACE PHYSICS, COMMUNICATION THEORY & ELECTRON PHYSICS STL-9990-6363-RU-000 N63-20996 21-01	INSULATED-GAYE FIELD-EFFECT DEVICES FOR MICROELECTRONICS N63-17366 15-09
· · · · · · · · · · · · · · · · · · ·	HIGH-SPEED, SOLID-STATE, DIGITAL SCANNER FOR
INTEGRATION CONSTANT OF THERMODYNAMIC FORMULA FOR CHEMICAL EQUILIBRIUM FOUND BY ASSUMPTION OF FINITE ZERO POINT ENTROPY IN SOLID STATE AGGREGATION	AEDC-TDR-62-61 N63-17686 16-20
RSIC-28 - 1747 44 VNI 2474 9 K N63-21427 0 22-11	HIGH POWER SOLID STATE SWITCH RADC-TDR-63-207 N63-17929 16-00
CF LASER	SOLID STATE TACTICAL AIR NAVIGATION RECEIVER-
CF MASER CF SEMICONOUCTOR DEVICE	DECODER ESD-TOR-63-128 N63-18090 16-09
SOLID STATE CHARGED PARTICLE SILICON DETECTORS ARL-62-406 N63-10128 01-15	SOLID STATE TACAN MONITOR - DELIVERABLE BREAD-
A GALVANIC SKIN RESPONSE SOLID STATE MEASURING	BOARD - PHYSICAL & ELECTRICAL ASPECTS ESD-TDR-63-321 N63-18276 17-88
AMRL-TOR-62-117 M63-11359 03-16	RADIO FREQUENCY INTERFERENCE AND ENVIRONMENTAL TESTING OF A MINIATURE SOLID STATE POWER SUPPLY
PROPERTIES OF GASEOUS & SOLID-STATE LASER DEVICES. CESIUM & RUBY	NASA-CR-50392 17-06 N63-18457 17-06
TRG-134-QTR-2 H63-11436 03-23	EXTENSION AND DEVICE IMPROVEMENT IN MICROWAVE SPECTRUM BY ANALYSIS OF ELECTRON BEAM DEVICES,
HOT ELECTRON EMITTER - SOLID STATE TRIODE	SOLID STATE DEVICES, AND PLASMAS
AFCRL-62-957 N63-12783 06-09	PUMP ENERGY REDUCTION REQUIRED FOR SOLID STATE
SOLID STATE DECOMMUTATOR FOR SUBCOMMUTATED FM SUBCARRIER TELEMETRY SYSTEMS NORE-T-231 N63-12830 06-08	RUBY LASER BY GAMMA RAY DAMAGE AND HIGH STATIC PRESSURE APPLICATION - MICROWAVE SPECTRUM NAS-18709 17-25
(1-40 IET/1-4m)	43-74 - 41781-147 No.3-14713 1-17-19
PHYSICS, SOLID STATE DEVICES, MASERS, RADIO- ASTROMONY, AND CRYOGENIC APPLICATIONS OF MICROWAYE TECHNIQUES N63-13094 07-23	SOLID STATE MASER MATERIALS FOR USE AT MILLIMETER WAVELENGTHS - MICROWAVE SPECTRUM STUDY N63-10711 17-25
PROPERTIES OF RUBIES AND OTHER SAPPHIRES N63-19122 07-25	INTERFERENCE ANALYSIS OF NEW CIRCUIT COMPONENTS - SOLID STATE DEVICES
SOLID STATE INSTRUMENTATION - CHARGED PARTICLES, SEMICONOUCTOR, DETECTORS N63-13125 07-15	PARAMETRIC AMPLIFIER IMPEDANCE TUNING & BENDIX
SOLID STATE IONIZATION P-N JUNCTION DEVECTORS	CIRCULATOR PERFORMANCE - SOLID STATE DEVICES RADC-TOR-63-285

06-25 06-99 LY 09-04

11-25 0 CTOMS 11-09 14 11-09 ENTS 12-09 ON 12-07 UNIMEL 13-09

13-25 14-23 TO ALPHA 15-25

16-20

16-01

7-06

7-09

ETER 17-25 TS -19-69

0-01

SOLID STATE TRANSMITTING, RECEIVING, AND RADIO FREQUENCY SWITCHING N63-20176 20-09	MICROSCOPY, IONIC CRYSTALS, X-RAY DIFFRACTION, SPIN RESONANCE, AND RADIATION METALLURGY ORNL-3480 20-25
SOLIO STATE DC TO DC CONVERTER AND RADIO INTERFERENCE FILTER GD/C-63-179 N63-21296 21-09	QUANTUM CHEMISTRY AND SOLED STATE PHYSICS ARL-63-96 N63-20634 20-23
INSTRUMENT FOR MEASURING BETA-GAMMA RADIATION - SOLID STATE PULSED GH TUBE LON RANGE ACCESSORY PADRE	OPTICAL MASER CONDITION FOR RESONANT BODIES AND KINETICS OF SOLID STATE MASER RAE-TRANS-1037 N63-20995 21-25
APPLICATION OF TRANSISTORS AS LOW-LEVEL SIGNAL SWITCHES - SOLID STATE CIRCUITS RE-TR-63-16.	SOLID STATE PHYSICS - GROWTH OF SINGLE CRYSTALS & CRYSTAL FILMS, MAGNETIZATION & LATTICE FLASTIC PROPERTIES, MEUTRON DIFFRACTION, & INTERMETALLICS NOLTR-63-151 24-25
SOLID STATE AMPLIFIERS - PARAMETRIC AMPLIFIERS, TUNNEL DIODE AMPLIFIERS AND RECEIVER SYSTEMS 450-TDR-63-845 N63-23137 24-08	CHARGE, MASS, AND ENERGY BALANCE IN COLLISION OF SLOW IONS WITH SOLID STATE ATOMS FTD-TT-62-851/16264 AMOUNT N63-23724 24-25
SOLID STATE NOISE GENERATORS - HIGH AMPLITUDE WHITE NOISE AND AVALANCHE BREAKDOWN MECHANISMS M63-23376 24-25	SOLID STATE INFRARED DETECTION - PERROELECTRICS AND SEMICONDUCTORS ASD-TOR-62-977 N63-23809 24-25
SOLID STATE CIRCUIT TECHNIQUES - DIRECT CURRENT SHITCHING DEVICES	SOLIO SURFACE FUNDAMENTAL SOLUTION TO THE DIFFUSION BOUNDARY LAYER EQUATION FOR MEARLY SEPARATED FLOW OVER SOLID SURFACES AT LARGE PRANDTL NUMBERS
TWO 500/25 VA SOLID STATE INVERTERS FOR GUIDANCE AND CONTROL ELECTRONICS - SPACECRAFT ELECTRONIC EQUIPMENT	TP-52 MOTIVATION ON SOLIDS BY MIGH-DENSITY ELECTRON BONBARDHENT MATTER AND MOTIVATION OF THE PROPERTY OF THE P
SSD-TOR-63-183-/11/ 24 25 N63-23792 7 24-25 SAID STATE PHYSICS	AFCRL-62-904 FUT DBY XUSA TAN63-11173 TA 03-23
POLAR MODEL OF ORDERING ENERGY IN ALLOYS MRL-123 OWA MOTETIOS - ZMORTO M63-10310: 01-25	STEADY-STATE FLUX OF MASS & ENERGY AT SOLID CATALYTIC SURFACE DUE TO HETEROGENEOUS RECOMBINATION OF HYDROGEN ATOMS - SQUID PROJECT
SOLID STATE AND MOLECULAR PHYSICS	SRI-14-P N63-12305 05-07
X-RAY FLUORESGENCE ANALYSIS TECHNIQUES FOR SMALL SAMPLES - PROTOTYPE ATMOSPHERIC ELECTRON PROBE AFCRL-62-933 N63-11803 04-15	ENERGY EXCHANGE IN RELATION TO JET PROPULSION - LOW-PRESSURE HEAT TRANSFER BETWEEN GASES & SOLID SURFACE - SQUID PROJECT SRI-15-P N63-13920 09-23
PROTON DAMAGE, ATMOSPHERIC CONTAMINATION, CHEMISTRY, ELECTRICITY, MECHANICS, METALLURGY AND CERAMICS, RADIO, SOLID STATE PHYSICS, AND SOURCE MG3-12416 06-01	SOLID SURFACE MORPHOLOGIES GOVERNED BY CAPILLARITY AND THERHODYNAMICS OF SURFACES - CRYSTAL ANISOTROPY AROD-2781-3 N63-14361 10-23
MICRONAVE INTERACTIONS AT CRYSTAL DEFECT CENTERS - ELECTRON SPIN RESONANCE, LASER, SOLID STATE PHYSICS, INTERMETALLICS, DETECTORS N63-13121 07-23	CRYOTRAPPING OF HELIUM & HYDROGEN DURING 20-DEG K CONDENSATION OF GASES ON SOLID SURFACES - SPACE CHAMBER APPLICATIONS AEOC-TOR-65-127 N63-16547 14-11
MATERIALS RED - CHEMISTRY, BIOCHEMISTRY, MATERIALS SCIENCE, METALLURGY, AND SOLID STATE PHYSICS - ABSTRACTS N63-13213 07-01	HEAT TRANSFER BETWEEN SOLID SURFACES AND FLUIDS NEAR THEIR THERMODYNAMIC CRITICAL POINT AROD-2000-7 TIMESTER MARK CT 32M N63-16979 14-13
SPONTAMEOUS MAGMETIZATION IN SOLIDS - COBALT, FERROMAGNETIC FILMS, AND MANGANOUS FLUORIDE ASD-TR-61-630 - N63-13664 08-23	SURFACE IONIZATION OF CESSUM ON POROUS TUMGSTEN, RHENIUM, MOLYBOENUM, AND TANTALUM - COMPARISON OF POROUS NATERIAL AND SOLID SURFACE DATA NAS-17658 26-18
ATOMIC ENERGY RELEASED BY CONTROLLED FUSION REACTION - PLASMA, SOLID STATE & THEORETICAL PHYSICS NUP-03-3 N03-16284 13-23	LITERATURE REPERENCES ON IMPACT OF LIQUID DROPS ON SOLID SURFACES 818-13 10 200207 N63-19105 128-17
INORGANIC CHEMISTRY, THERMODYNAMICS, SOLID STATE PHYSICS, KIMETICS, ELECTROCHEMISTRY, METALLUNGY AND CERAMICS, MICROSTRUCTURE, AND REACTOR MATERIAL UCRL-10706 NO3-17705 16-07	PREVENTION OF LIQUID SPREADING OR CREEPING OVER SOLID SURFACES NRL-3959 1 44 201 202 7007 07 20 M63-19807 119-07
PHASE SHIFTS AND JOST FUNCTIONS IN S AND P WAVES OF K-PLANE - SOLID STATE PHYSICS	PARTICLE INTERACTIONS WITH SOLID SURFACES - MEASUREMENTS USING MOLECULAR BEAN TECHNIQUES GDA-63-0592 N63-19872 19-23
RESEARCH IN SOLID STATE PHYSICS, PHYSICAL HETALLURGY AND PHYSICAL CHEMISTRY NASA-CR-50456 N63-18400 217-25	IMPACT OF MIGH ENERGY IONS UPON SOLID SURFACES RELEVANT TO ION ROCKET PROPULSION - SPUTTERING YIELD RATES ARL-63-125 CONTRACTOR AND
QUANTUM HECHANIC TUNNELING THROUGH THIN BARRIERS - SOLIO STATE STUDY - MICRONAVE SPECTRUM STUDY N63-18710 17-25	ENERGY TRANSFER DURING ATOMIC RECOMBINATION ON SOLID SURFACES N63-21502 22-23
SOLID STATE PHYSICS AT OAK RIDGE NATIONAL LABORATORY ORNL-3364	SOLIDIFICATION UPPER AND LOWER BOUNDS IN PROBLEMS OF MELTING OR SOLIDIFYING SLABS CU-23-62-OWR-266/20/-CE N63-14520 10-13
SOUTH STATE BUYERS - BANKATION DANGER, ELECTRON	CEPETY OF SOLIDIFICATION MARIANES ON MECHANICAL

EFFECT OF SOLIDIFICATION VARIABLES ON NECHANICAL

SOLID STATE PHYSICS - RADIATION DAMAGE, ELECTRON

PROPERTIES OF CAST STEEL - MICR WAL-TR-311.1/1	DANALYZER N63-15854	13-18	SAN-TOR-63-42	TATRET ASSESSED	299955
SOLUTE REDISTRIBUTION DURING SO EUTECTIC-FORMING MIXTURES			MATHEMATICAL COMPUTATION OF CLASSI OF GAS MOLECULES NEAR CRYSTALLINE AIAA PAPER 63-463	SOL ID 163-20797	1,79813
TDR-169/3240/TN-2	N63-21246	21-19			Action
LIDS A INFINITE SOLID A RANKINE SOLID	AUT MAZAM JA: M. José Gar Gent	71740 1966) W	NOTION PROBLEM FOR HEAVY SOLID BOT POINT - SOVIET DATA PROCESSING	63-21095	21-20
A RANKINE SOLID DIFFUSION MEASUREMENTS OF RADIO			MICROSCOPIC VISCOSITY APPROACH APP	I TEN TO ON	10895
IN SOLIDS EUR-111-E	N63-10781		OF ATTENUATING ELASTIC WAVES IN SC	DL IDS 163-22493	23-23
SPATIAL HONSTATIONARY HOTIONS OF		LIM	PROPAGATION OF ELASTIC AND PLASTIC	STRAIN PU	LSES
WITH SHOCK WAVES AEC-TR-5400		03-23	IN BOUNDED SOLIDS AROD-1325-17		1196
CYLINDRICAL WAVE IN VISCOELASTIC	N63-12161	05-23	BIBLIOGRAPHY OF SHOCK WAVE PROPAGA	TION IN SO	23-2)
THERMAL STRESS IN VISCOELASTIC			SOLIDS UNDER PRESSURE - X-RAY DIFF TEMPERATURE, DIELECTRIC CONSTANT,		
ELASTIC AND PLASTIC STRAIN IMPU	SE PROPAGAT	TONILIDE	CONDUCTOR TO INSULATOR TRANSITION	163-22982	25.20
IN SOLIOS	USOS (SELMEN)	EGMERT TO		21 A RG (MARKED	13425
AROD-1325-16	A DESCRIPTION OF	08-33	IONIZATION BY COLLISION OF RELATIV	GASES	100
MECHANISMS OF DECOMPOSITION, COM DETONATION OF SOLIDS	N63-14486	10-26	THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF	163-23243	24-01
HEAT CONDUCTION IN ISOTROPIC EL	C FECT WAY SO	15113	STRAGGLING ENERGY LOSS BY HIGH ENERGE RELATIVISTIC ELECTRONS IN SOLIDS	RGY	TUPS!
EQUATION FOR HEAT FLUX VECTOR IER SER. 131, ISSUE 20	N63-14500	INTERNA	THE THE PARTY OF T	163-23246	24-25
ADSORPTION OF GASES ON SOLIOS II	HIGH VACUU		DENSITY EFFECT IN SOLIDS AND ENERG RELATIVISTIC ELECTRONS — COLLISION BREMSSTRANLUNG RADIATION		24-21
PARKE WARRENT WELL THE WITTERS OF THE COLUMN	T. CLICKI MARK		MOLECULAR PHYSICS		1 102
SHOCK WAVE PROPAGATION IN SOLID: TIME SCALE OF UNSTEADY MOTIONS : SPHERICAL SHELLS BY BLAST IN SHI	INITIATED IN	NT OF METAL	DYNAMIC SURFACE PHENOMENA IN SPO SPREADING OF OILS ON SOLIDS NRL-5963	FANEOUS	24.1
STREET SHEELS BY BEAST IN SHE	N63-16315	13-23	SECRE ATHREAMS AND SECURAL PROPERTY	LES - PHOTE	SARP
RADIATION EFFECTS ON INSULATORS	- BOSTTBON	EPERENT.	SOLUBILITY STUDIES OF DETERGENCY - METTING AS		T.SHA
ANNIHILATION IN SOLIDS - IONIZATORS CRYSTALS BY X-RAYS HEASURED BY	TION OF ANTH		STUDIES OF DETERGENCY - WETTING AG SURFACTANTS CCL-133	OM DANAGE!	
TANK TANK MENTAL STREET TO THE TOTAL STREET	N63-17654	16-17	DETERMINATION OF DIFFUSIVITY AND	HIES, RADIO	1933
FREE ENERGY AND ENTROPY PRODUCTION VISCOELASTIC SOLIDS		TO EST OIL	PHASE SYSTEMS - LITHIUM NITRATE		
	N63-18075	16-25	HITCH SERVICE TERMS ASSESSED ASSESSED.	ENGIN SHARKS	23,8
CONVERSION OF ORTHO-PARA TRITIUS			EFFECT OF INDIUM ON SOLID SOLUBILI	TY OF CALC	IUM E
GAS AND SOLID PHASES NASA-CR-50363				63-12719	06-1
DOYMANIC CRITICAL POINT	THEFT PHENNE	用版技術	CARBON SOLUBILITY IN LIQUID PLUTON	HUIN	
SOLID BODY RESPONSE TO HIGH INTE EFFECT OF MATERIAL STRENGTH - HY CALCULATIONS	PRODYNAMIC	LOADS,	STRUCTURE OF FERROUS-OXIDE INTERP	63-13156 GE OF 180N	
ASRL-TR-106-1	N63-18686		OXYGEN INSOLUBILITY IN HIGH PURITY		以於契約
SOUND AND ULTRASONIC WAVES IN AI	R, WATER AND	SOLID			
HASA-TT-F-96 RE + Asis to 3 set	N63-19157	18-23	SOLUBILITY AND DIFFUSION OF GASES OXYGEN, NITROGEN AND HYDROGEN ASD-TDR-62-1018	NUMBER OF STREET	74(0%)
STATIC NONLINEAR THEORY OF ELECT		THERMO- 19-25	CAME TOWER PROPERTY AND ACCUMENTS		H91100
NEWS CHERESIS OU SHILLING BY L. MY IN		5785007 S	RARE EARTH SALTS OF TRICARBALLYLIC HYDRATION AND SOLUBILITY	THE PARTY OF PARTY	RIGHT
BASIC FAR-INFRARED TECHNIQUES - GRATING, FILTERING TO STUDY SOLI	DS AND LIQUI	IDS	15-657 JALDA TARRANA PER DATA NATURALI AL	63-21013	HONE?
AFCRL-63-832		19-15	TEMPERATURE EFFECT ON SOLUBILITY O		
ADSORPTION OF GASES ON SOLIDS IN AFCAL-63-170	HIGH VACUUM N63-19769	19-09	CARS-2952 HA 2 HI SHITTHING 1206 (A		8 90
ELECTRON SCATTER IN SOLIDS FROM		ECT	SOLUTION SA SOLID SOLUTION NUMERICAL ANALYSIS OF MATRIX USING SOLUTION FOR IMPROVING RESULT OBTA	ITERATIVE	RUSE
	VING VARYING		GAUSSIAN ELIMINATION	58408-10-	AZAM
CREEP IN SOLID PRISMATIC BARS HA SECTION UNDER COMBINED LOADS AND	AXTAL LOADS	,			MANA
SECTION UNDER COMBINED LOADS AND OUTSIDE THE KERNAL OF CROSS SECT		M3MK,	TEMPERATURE DISTRIBUTION IN STELLA		RE -
SECTION UNDER COMBINED LOADS AND OUTSIDE THE KERNAL OF CROSS SECT	TON N63-20433	20-33	TEMPERATURE DISTRIBUTION IN STELLA ITERATIVE PERTURBATION METHOD OF A	MALYSIS	COURS
SECTION UNDER COMBINED LOADS AND OUTSIDE THE KERNAL OF CROSS SECT FAR INFRARED SPECTRA OF CRYSTALS LARGE RANGE OF TEMPERATURES	TON N63-20433 AND SOLIDS	20-33 IN A	TEMPERATURE DISTRIBUTION IN STELLA ITERATIVE PERTURBATION METHOD OF A AFCRL-63-829	MALYSIS 163-20834	21-2
OUTSIDE THE KERNAL OF CROSS SECT FAR INFRARED SPECTRA OF CRYSTALS LARGE RANGE OF TEMPERATURES	TON N63-20433 AND SULIDS N63-20505	20-33 IN A 20-25	TEMPERATURE DISTRIBUTION IN STELLA ITERATIVE PERTURBATION METHOD OF A AFCRL-63-829	MALYSIS 163-20834	21-2

21-07

ECTORIES 21-23 FIXED

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23-25 FICLES

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FLOS

-24

23-23 OL 101 23-23 N63-13856 09-11

ALGORITHM FOR ITERATIVE SOLUTI		ARC-REM-3289
SOLUTION HEAT	N63-22181 23-20	MELIUM CONCENTRATION OF SONIC VELOCITY INTO SUP NASA-TN-D-1787
COLVENT	LA KAPRA-S BRICKET JA HING APACHE ROLE SA HINE CAJMI ROCKET	SONOLUMINESCENCE EFFECTS OF THERMAL CONO
EFFECTS OF ION HYDRATION IN SO	DEVENT EXTRACTION AND	SORPTION AND ADDRESS OF THE
ULTRAHIGH VACUUM HEAT TREATMEN AND EVAPORATION OF CHROMIUM OF	NT OF SILICON CARBIDE NTO CLEAN SURFACES	SA CHEMISORPTION SA CRYOSORPTION CF ADSORPTION CF CHEMISORPTION CF DESORPTION
AFCRL-62-971 RECOVERY OF RADIOCESIUM BY SOI USING DIPICRYLAMINE - RADIOCHI	N63-12670 06-25	SORPTION OF SULFUR, PHO ZEOLITES
APPARATUS FOR REPEATED AUTOMA	N63-19501 19-07	ELECTRIC SORPTION AS PO TIME OF ADSORBING GASED EMITTER OF A MUELLER MI
POROUS SOLIDS WITH HOT SOLVEN	N63-20698 21-07	FTD-TT-63-377/162
SUMMERFIELD WAVE SURFACE WAVE EXCITATION - PAR DONINANT DIPOLE MODE INTO A C DIELECTRIC ROD - PART II, SOM	T I, LAUNCHING THE IRCULAR CROSS SECTION	CF ACOUSTICS EFFECTS OF THERMAL COND
AFCRL-62-173 SOMMERFELD APPROXIMATION	N63-14659 10-25	SOUND AND BODY CHARACTE APPLICATIONS TO BIONICS JPRS-17079
(0-50 ac.117-call	N63-21098 21-20	UNDERWATER SOUND PROPAG SOUND FIELD, OCEAN HODE
UNDERWATER SOUND PROPAGATION SOUND FIELD, OCEAN MODEL	- OCEANOGRAPHY, SONAR N63-11763 04-23	PROTON DAMAGE, ATMOSPHI CHEMISTRY, ELECTRICITY, CERAMICS, RADIO, SOLID
INTERLEAVED-PLATE ELECTRODYNA NEL-1151	HIC TRANSDUCER N63-13012 07-15	SOLID PROPELLANT COMBU
TRANSDUCER MEASUREMENT PLATFO	RM FOR SONAR FACILITY N63-13609 08-15	BY GASEOUS FLAMES - COL
ACOUSTICAL SPACE-TIME INFORMA SONAR ACR-63	NA3-13A59 08-20	CUMULATIVE AUDITORY EFF TO ACOUSTIC STIMULATION INTENSE SOUND ON INNER AMRL-TDR-62-99/11/
MAGNETIC CORE MATRIX TIME COM CORRELATION SIGNAL PROCESSING ACOUSTIC SIGNALS NEL-1161		FAR FIELD ACQUSTIC RESI SOUND FROM ROCKET ENGI NASA-TN-D-1832
PROCESS OF STOCHASTIC DELAY -	EFFECT ON POWER	FLUID NOTION AND SOUND
SPECTRA - CORRELATION FUNCTION SONAR SYSTEMS	NS OF RADAR AND N63-19107 18-08	SOUND FIELD FAR FIELD HEASURENENTS
ONDE S RADIOSONDE S ROCKET SONDE	ALL ISTRICTAL MERGARIA	NONCONVECTING ULTRASON AXIS
CF SOUNDING	MA STINGSTERS OF	EFFECT OF FREE STREAM RADIATIVE SOUND FIELD SPECTRA AND SOUND PROD NASA-CR-51985
SONIC GAS JET LATERAL INJECTI DUCT FLOW 88-316	ON INTO SUPERSONIC	SOUND MEASUREMENT FIELD MEASUREMENTS OF
GAS DYNAMICS SIMILITUDE LANS SONIC, AND HYPERSONIC FLOWS O THEOREMS FOR FRICTIONLESS GAS DVL-240		SOUND PROPAGATION SOUND PROPAGATION IN SI SUPERIMPOSED AIR STREAM AMRL-TOR-62-140/III/
AERODYNAMIC EFFECTS AHEAD OF JETS EXHAUSTING FROM A FLAT P NASA-TN-0-1800		SOUND PROPAGATION IN S SUPERIMPOSED AIR STREAM AMRL-TOR-62-140/11/
ACCELERATION OF MAGNETOGASDYN THROUGH SONEC VELOCITY - GAS 01-82-0239	DYNAMICS	SOUND PROPAGATION IN S SUPERIMPOSED AIRSTREAM
SONIC SPEED SONIC LOAD RECORDER ASD-TOR-62-165, VOL. 1.	M63-12301 09-15	FIELD MEASUREMENTS OF
CONICAL CAMBER USED TO PRODUC LEADING EDGE OF DELTA WING AM	E FLOW ATTACHHENT AT	TRANSIENT SOUND WAVE P

F VENT EXHAUSTING HELIUM AT PERSONIC STREAM OF AIR M63-15773 13-26 DUCTION ON SONOLUMINESCENCE N63-10648 02-11 PHONESTRAND SOUTH A HATE TO SEE TO SE PART Y PRESENT TO THE BON AT STUMB SHIPM WHITE THE ENGINE OSPHORUS, AND MERCURY BY N63-23425 24-19 OSSIBILITY OF REDUCING OUS RESIDUES ON TUNGSTEN ICROSCOPE N63-23640 24-09 zatnadvoge biden ova DUCTION ON SONOLUMINESCENCE N63-10648 02-11 ERISTICS OF DOLPHINS -N63-11684 04-16 MERIC CONTAMINATION,
, MECHANICS, METALLURGY AND
STATE PHYSICS, AND SOUND
M63-12416 06-01 STION - SCATTERING OF SOUND MBUSTION INSTABILITY N63-15585 12-26 FFECTS OF MULTIPLE EXPOSURE ON - HISTOLOGICAL EFFECTS OF R EAR N63-16409 14-16 CHANCE DUE TO PROPAGATION OF N63-18887 18-23 M63-22338 23-11 S OF AXISYMMETRIC JET USING NIC SOUNCE LOCATED ON JET N63-21820 22-11 OF A FREE JET - POWER DUCTION PROCESS N63-23009 24-11 3136-1057 SOUND PROPAGATION N63-13730 08-23 COUND-ABSORBENT DUCTS WITH N63-13144 07-23 SOUND-ABSORBENT DUCTS WITH MS N63-13192 07-23 OUND-ABSORBENT DUCTS WITH 15 163-13277 07-23 SOUND PROPAGATION N63-13730 08-23 TRANSIENT SOUND MAVE PROPAGATION THROUGH 3-LAYER.
STRATIFIED MEDIUM
RM-3478
M63-15195 11-00

SOUNDING ROCKET AND SATELLITE DATA JULY 1 TO DECEMBER 31, 1962 N63-23157 24-32

	***			M42 2222	130
EFFECTS OF GRAVITY AND NONUNIFORM ATMOSPHERIC DENSITY ON SOUND PROP	AGATION -	JAM.	SOUNDING ROCKET	MO3-23331	24-1
NUCLEAR EXPLOSION DETECTION RM-3596	N63-16518	14-12	SA AEROBEE-HI ROCKET SA AEROBEE ROCKET	TABLE TO	
EFFECT OF ATMOSPHERIC CONDITIONS PROPAGATION	R280X2404X380	1,6000.2	SA EXOS SOUNDING ROCKET SA KAPPA-8 ROCKET	TACH 319138	リン 社 リン 社
NASA-TH-X-50142	N63-18486	17-12	SA NIKE APACHE ROCKET SA NIKE CAJUN ROCKET		
CROSS WIND EFFECT ON SOUND PROPAG HIGH ALTITUDE EXPLOSIONS - ACOUST ERDA-27	TICS RESEARC				11150 70068
FAR FIELD ACOUSTIC RESONANCE DUE SOUND FROM ROCKET ENGINE NASA-TN-D-1832	TO PROPAGAT N63-18887	TION OF 18-23	ATMOSPHERE MEASUREMENTS BY MEANS ROCKET AND SATELLITES AFCRL-62-1021		G 05-
ACOUSTIC PROPAGATION UNDER APPLIE	LESS SINTE AMPRICA	21-18	MEASUREMENT OF WIND IN UPPER ATM SPHERES FROM SOUNDING ROCKETS AND	OSPHERE BY F	FALLI
GAS DYNAMICS - SOUND PROPAGATION	William William		SAD-100 ATTITUDE CONTROL SYSTEM FOR FINNI	N63-13112 NED SOLID	07-
SOUND RADIATED FROM TURBULENT FLOR	W NEAR FLEX	TBLE	PROPELLANT SOUNDING ROCKET NASA-TN-D-1608	N63-13219	07-6
AND RIGID BOUNDARIES BBN-1054	N63-22525	23-11	DEVELOPMENT OF SOUNDING ROCKETS		
ASPECTS OF SOUND PROPAGATION IN A NASA-TH-X-50842	THOSPHERE N63-22583	23-12	ROCKOON, AND ELECTRONIC EQUIPMENT	OT STATE THAT	MOD.
DISCRETE FREQUENCY SOUND GENERATED OF UNSTABLE CIRCULAR JET ON FIXED ACOUSTICS		GEMENT 23-23	ROCKOON - HIGH ALTITUDE BALLOON I SOUNDING ROCKETS	LAUNCHER FOR N63-13253	07-0
OUND WAVE		Mary No. 5 a	LOW NOISE PARAMETRIC AMPLIFIER FO	FOR RADAR TRA N63-13258	ACKING 07-0
FLUID AMPLIFIER FOR USE IN LOGIC (SENSOR OF LOW VELOCITY FLUID STREACOUSTIC WAVES			OPTICAL TRACKING OF SOUNDING ROCE	KETS BY CAME N63-13259	
EXCITATION OF ELECTROACOUSTIC WAVE	ES BY ANTEN	INAS IN	SOUNDING ROCKET MANAGEMENT	N63-13260	07-
	N63-17143	15-20	PROGRESS IN SOUNDING ROCKETS, DIA INSTRUMENTATION, RADAR, LAUNCHING	IG SITES, AND	
NEW ANALOGIES BETWEEN SOUND WAVE !			SATELLITE TRACKING IN FRANCE	N63-13758	08-
	N63-18241	7	TOPSIDE SOUNDINGS OF IONOSPHERE NASA-TN-D-1538	N63-13838	09-
SOUND AND ULTRASONIC WAVES IN AIR HODIES NASA-TT-F-96	N63-19157	VI Maria	SATELLITE INSTRUMENTATION TESTED ROCKET - ATMOSPHERIC DRAG TESTS		HOSE!
SOUND WAVE PERTURBATIONS IN HYDRAI CLOSED-END SIDE BRANCH - FLOW & PA	ULIC LINES	WITH	SOUNDING ROCKET PAYLOAD FOR WAKE ASSEMBLY, SAFETY, HOLD, & LAUNCH	GENERATOR T	
THREE-DIMENSIONAL DISPLAY SYSTEM	WITH NITROG	GEN-	TDM-W-11,774, REV. 1	N63-15424	12-
QUENCHED MERCURY VAPOR & ACOUSTIC RADC-TDR-63-202	WAVE SCANN! N63-20828	NING 21-06	MICROMETEORITE PARTICLES FROM SOL	N63-16637	14-
IRREGULARITIES MOVING ACROSS THE I MAGNETIC FIELD EXPLAINED AS SOUND ELECTRON GAS STREAMS			MICROMETEORITE PARTICLES FROM SOL ELECTRON MICROSCOPY	N63-16638	14-
SEL-63-030	N63-21209	21-23	MICROMETEORITE PARTICLES FROM SOL PARTICLE SIZE AND FLUX	N63-16639	ET -
PIEZOELECTRIC SEMICONDUCTORS FOR A AMPLIFICATION - NORMAL MODES, COUR DRIFTING CARRIERS	PLED MODES,	, AND	COMPARISON OF STEADY-STATE AND ST FREEDOM ANALYSIS OF PITCH-ROLL RE	SIX-DEGREE-OF	9 5110
ML-1057	N63-22912	23-25	CONDITIONS FOR LONG SLENDER SOUND NASA-TN-D-1816		15-
TOUGHNESS IS COUNTY	HOLYADA 4089	18:02	HIGH ALTITUDE SOUNDING ROCKETS FOR TEMPERATURE AND DENSITY MEASUREMENT	OR UPPER AIR SENTS N63-17159	R 15-
AND FREQUENCY SOUNDING	N63-11842		STRUCTURE AND CHEMICAL ANALYSIS	OF UPPER	
VERTICAL DISTRIBUTION OF WAIER VAR LATITUDES AS MEASURED WITH BALLOOM	POR AT LOW		SIMULATION STUDIES	NOTING ROCKET N63-18067	16-
POINT HYGROMETER	N-BORNE FROS N63-12698	06-21	IONOSPHERE ANALYSIS USING LOW FRE	N63-18305	17-
ATMOSPHERIC SOUNDING BY SATELLITE STELLAR REFRACTION	MEASUREMENT N63-13280	NTS OF 07-21	SOUNDING ROCKETS IN SPACE EXPLORA		
BALLOON SATELLITE PROBE OF SOLAR A	CS	19-05	SOUNDING ROCKET MEASUREMENT OF EL TO 1500 KILOMETERS	LECTRON DENS N63-19691	SITI 19
JPRS-20475	N63-19553	19-05	SOUNDING ROCKET AND SATELLITE DAT	TA JULY 1 TO	0

DESTRABILITY OF STRATOSPHERIC SOUNDING BY AIRCRAFT

24-21

THEFT

05-12 ALLING 07-21

07-06

07-04

07-04

07-09

07-08

07-01 res,

18-01

9-12

DING

2-04

-29

ND -29

-29

-32

-04

12

12

04

12

12

	*
LOWEST MEASURED TEMPERATURE IM EARTHS ATMOSPHERE RECORDED BY SOUNDING ROCKET N63-23755 24-12	SPACE B
SOURCE S COHERENT SOURCE SEFECTRON SOURCE	TERREST
S HEAT SOURCE S ION SOURCE S POVER SOURCE S RADIATION SOURCE S RADIA SOURCE S RADIO SOURCE	AEROSPA PHYSIOL SAFETY,
SOUTHERN HENISPHERE	SPACE SEREQUIRE
ANNUAL AND DIGRAL VARIATION OF METEUR RATES IN SOUTHERN HEMISPHERE AFCRL-62-324 N63-12641 06-29	NASA PRI PLANETA PLANETO
MARMONIC ANALYSIS OF MEAN FREE-AIR GRAVITATION ANOMALIES USING LEAST SQUARES METHOD — FLATTENING VARIATIONS IN MORTHERN AND SOUTHERN HEMISPHERES N63-12659 06-12	PLANETO NASA-TH EXTRATE
ATMOSPHERIC MOMENTUM AND ENERGY CALCULATIONS FOR	ASTROBE TRAJECT
SOUTHERN HEMISPHERE DURING IGY	AWFL-RT
AFCRL-62-1128 AD1100 M13110 MA N63-12759 W 06-12	RECENT
EMPIRICAL AND THEORETICAL STUDIES OF ATMOSPHERIC EMEGETICS — GEOSTROPIC KIMETIC ENERGY SPECTRUM, SOUTHERN CIRCUMPOLAR VORTEX, TERRESTRIAL RADIATION N63-14914 11-21	CONTRIB
MAINTENANCE OF SOUTHERN HEMISPHERE CIRCUMPOLAR	OF MEDI
VORTEX - ATMOSPHERIC ENERGETICS N63-14916 11-21	LIFE SU PHYSIOL
SOUTHERN CIRCUMPOLAR VORTEX AND SPRING MARMING OF POLAR STRATOSPHERE - ATMOSPHERIC EMERGETICS	DEVELOP JPRS-18
N63-14917 11-21 POLEWARD FLUX OF ATMOSPHERIC ANGULAR MOMENTUM IN	BIOLOGI JPRS-20
THE SOUTHERN HEMISPHERE N63-19558 19-21	SPACE B
MAINTENANCE OF THE KINETIC ENERGY OF MEAN ZONAL FLOW IN THE SOUTHERN HEMISPHERE N63-19559 19-21	JPRS-18
Ne3-21537 24-14	Consult
S BANACH SPACE S CISLUMAR SPACE S DEEP SPACE S EUCLIDIAN SPACE	RADIATI RADIATI PROPULS
S FREE SPACE S INTERPLANETARY SPACE	SPACECR
S INTERSTELLAR SPACE SPACE BIOLOGY CF BIOASTRONAUTICS	CYTOLOG
CF BIOASTRONAUTICS CF CLOSED ECOLOGICAL SYSTEM LABORATORY IN SPACE, METEOROLOGICAL SATELLITE, BIOLOGICAL EFFECTS, SPACE ENVIRONMENT	SPACE L FLIGHTS
BIOLOGICAL EFFECTS, SPACE ENVIRONMENT N63-10241 01-10	81-55 1 653
USSR SPACE FLIGHTS - MEDICAL AND BIOLOGICAL	INTEGRA SYSTEMS
JPRS-16227 N63-10621 02-16	PHYSICA
SPACE BIOLOGY, SPACE ENVIRONMENT, ASTRONAUT TRAINING JPRS-16677 N63-10982 02-16	PHYSICA LON GRA
SPACE FLIGHTS AND BIOLOGY IN OUTER SPACE - SOVIET REPORT	MOTION
JPRS-16776 N63-11203 03-16	TION AND
BIOLOGISTICS FOR SPACE SYSTEMS - ECOLOGICAL SYSTEMS - BIOREGENERATION AMRL-TDR-62-116 03-16	- Slovoid
SPACE RESEARCH - ASTRONOMY, LUNAR & PLANETARY RESEARCH, BIOLOGY, SOLAR ATMOSPHERE, STERILIZATION AND CELESTIAL MECHANICS	EFFECT
AND CELESTIAL MECHANICS	81-55 16

0 Samo 2089 N63-11562 04-01

SPACE BIOLOGY - EXPERIMENTS ON BEETLES AND BLOOD PRESSURE - WEIGHTLESSNESS AND BALLOON FLIGHTS

OLOGY - NASA PROGRAMS N63-12834 06-16 VES OF SPACE BIOLOGY - SEARCH FOR EXTRA-TIAL LIFE, SUPPORT OF MANNED SPACE FLIGHT, F. ORGANISM-ENVIRONMENT RELATIONSHIPS N63-12836 08-1 E MEDICINE AND BIOLOGY - BIBLIOGRAPHY ON GY, PSYCHOLOGY, PHARMACOLOGY, TOXICOLOGY, AND LIFE SUPPORT SYSTEMS N63-15254 12-16 TENCE - SPACE BIOLOGY - SPACE VEHICLE OGRAM PLANNING - ASTRONOMY, SOLAR PHYSICS, LY ATMOSPHERES, IONOSPHERES, BIOSCIENCE AND RESTRIAL RESEARCH - BIBLIOGRAPHY -DLOGY, ASTRONOMY, COSMOLOGY, LUMAR DRIES, AND METEORITIC CRATERING D-TDR-63-3025 M63-18778 18-29 PROGRESS AND FUTURE PROBLEMS IN SPACE. UTIONS OF SPACE MEDICINE TO OTHER FIELDS CINE N63-18941 18-16 PPORT SYSTEMS - SPACE MEDICINE AND BIOLOGY. ENT OF SPACE BIOLOGY IN THE SOVIET UNION 25 N63-20928 21-16 125 AL & MEDICAL FACTORS OF SPACE FLIGHT 43 N63-21186 21-16 OLOGY AND MEDICINE N63-21495 22-16 UT PHYSIOLOGICAL STUDIES DURING SPACEFLIGHT N63-21496 22-16 ON PROTECTION FOR SPACECRAFT - COSMIC ON, ION BELT RADIATION, & NUCLEAR ION EFFECTS ON BIOLOGICAL SYSTEMS, N63-21497, 22-16 AFT BIOLOGICAL TELEMETRY SYSTEMS N63-21490 22-16 ICAL STUDIES AND SPACE BIOLOGY N63-21499 22-16 IFE SUPPORT SYSTEMS FOR LONG AND SHORT
- NUTRITIONAL PROBLEMS TION OF MAN & MACHINE IN CONPLEX CONTROL FOR SPACECRAFT N63-21501 22-16 L EXERCISE FOR COSMONAUTS UNDER HIGH AND VITY - MUSCULAR COORDINATION AND SKILLS N63-21503 22-16 SICKNESS AS PROBLEM OF SPACE MEDICINE CAL EFFECT OF COSMIC RADIATION ON SPACESHIP N63-21505 22-16 EFFECT OF SPACE FLIGHT FACTORS ON BIOLOGICAL INDICES IN INSECTS - SPACE BIOLOGY 23 37 KANTYMA NO YTY N63-21506 AT 22-16 CYTOLOGICAL AND MISTOLOGICAL CHANGES IN HEMATOPOLETIC ORGANS OF MICE UNDER INFLUENCE OF SPACE FLIGHT - SPACE BIOLOGY N63-21507 22-16 PATHOLOGICAL CHANGES IN INTERNAL ORGANS OF ANIMALS UNDER INFLUENCE OF FLIGHT

SUBJECT INDEX

35 955

	MICROBIOLOGICAL AND CYTOLOGICAL STUDIES IN SPACECRAFT - SPACE BIOLOGY N63-21509 22-16	RESISTANCE OF ADRENALECTOMIZED AND HYPOPHYSECTOMIZED RAYS TO ACUTE DXYGEN DEFICIENCY N63-21534 22-14
	EFFECT OF SPACE FLIGHT FACTORS OF SATELLITE VOSTOK 11 ON HAPLOID AND DIPLOID YEAST N63-21510 22-16	DEVELOPMENT OF HIGH-ALTITUDE TISSUE SWELLING .
	103-21510 22-10	SPACE BIOLOGY. N63-21535 22-14
	GENETIC AND PHYSIOLOGICAL EFFECT OF SPACEFLIGHT ON SEEDS OF HIGHER PLANTS AND ACTINOMYCETES - SPACE BIOLOGY N63-21511 22-16	EVALUATION OF CEREBRAL BLOOD SUPPLY UNDER CONDITIONS OF ALTERED GRAVITATIONAL FIELD - SPACE BIOLOGY N63-21536 22-14
	PHYSIOLOGY OF PLANTS GROWN IN PANIR COMPARED TO PLANT GROWTH IN SPACECRAFT ABOVE ATMOSPHERE - SPACE BIOLOGY N63-21512 22-16	EFFECT OF PROLONGED LIMITATION OF MOTOR ACTIVITY ON BEHAVIOR DE MONKEYS - SPACE BIOLOGY N63-21937 Z2-16
	IONIZING RADIATION AT HIGH ALTITUDES AND RADIOLOGICAL SAFETY DURING SPACE FLIGHT - SPACE 810LOGY N63-21513 22-16	SPACE BIOLOGY AND MEDICINE JPRS-18538 N63-21546 22-14
	REMOTE EFFECT OF SPACE FLIGHT ON NERVOUS ACTIVITY AND UNCONDITIONED REFLEXES - SPACE BIOLOGY	SPACE BIOLOGY AND MEDICINE - EXTRATERRESTRIAL LIFE ON MARS AND VENUS N63-21547 22-16
	N63-21514 22-16	SPACE BIOLOGY AND MEDICINE - INTERRELATIONSHIP OF CYBERNETICS & SPACE MEDICINE N63-21548 22-16
	SENSORY AND MOTOR EFFECTS OF WEIGHTLESSNESS IN HUMANS - SPACE BIOLOGY N63-21515 22-16	LIFE SCIENCE RESEARCH - SPACE BIOLOGY, AND PSYCHOLOGICAL AND PHYSIOLOGICAL EFFECTS OF SPACE
	INTELLIGIBILITY AND FREQUENCY SPECTRUM OF HUMAN SPEECH FROM SPACE - BIOLOGY OF WEIGHTLESSNESS	FLIGHT N63-23235 24-01
	N63-21516 22-16 DEVELOPMENT OF HOTOR HABITS IN STATE OF	BIOLOGY AND PHYSIOLOGY OF POCKET MOUSE AS ORGANISM FOR BIOSATELLITE RESEARCH NASA-CR-51643 N63-23530 24-14
	WEIGHTLESSNESS - SPACE BIOLOGY N63-21517 22-16	METABOLISM OF LITTLE POCKET MOUSE /PEROGNATHOS
1	EFFECT OF MECHANICAL STRESSES ON PHYSIOLOGY -	LONGIMEMBRIS/ FOR USE IN BIOSATELLITES N63-23531 24-16
	SPACE BIOLOGY N63-21518 22-16	RESPONSE OF POCKET HOUSE TO IONIZING RADIATION
	HEMODYNAMICS AND GAS EXCHANGE IN CIRCULATORY TRACT DURING TRANSVERSE CHEST-BACK ACCELERATION - SPACE BIOLOGY 22-16	MITH APPLICATION TO SPACE BIOLOGY - RADIATION RESISTANCE N63-23532 24-14
	EFFECT OF TRANSVERSE ACCELERATIONS ON HUMAN BODY - SPACE BIOLOGY N63-21520 22-16	METABOLIC RATES OF IRRADIATED POCKET MICE PEROGNATHUS LONGIMEMBRIS - SPACE BIOLOGY N63-23533 24-14
	EFFECTS OF VARYING DEGREES OF LONG-LASTING TRANSVERSE ACCELERATIONS ON ELECTRICAL REACTIONS OF HUMAN CEREBRAL CORTEX - SPACE BIOLOGY	PROPOSED EXPERIMENT - EFFECTS OF EXTRATERRESTRIAL RESIDENCE ON POCKET MICE - METABOLIC RHYTHM N63-23337 24-16
	N63-21521 22-16	LIFE SUPPORT SYSTEM FOR STUDY OF BIOLOGICAL RHYTHM
	LIMIT OF HUMAN TOLERANCE TO TRANSVERSE ACCELERATIONS AND PHYSIOLOGICAL REACTIONS OF BODY - SPACE BIOLOGY No3-21522 22-16	IN POCKET MICE N63-23538 24-16 SPACE BUS
	EFFECT OF OFFICE VATION OF CLEER ON WHAN WEAVOUR	NUCLEAR ELECTRIC SPACE-BUS FOR PLANETARY LANDING HISSIONS
	ACTIVITY - SPACE BIOLOGY N63-21523 22-16	ARS PAPER-2390-62 N63-10803 02-29
	EFFECT OF RESISTANCE TO INSPIRATION ON BREATHING UNDER INGREASED PRESSURE - SPACE BIOLOGY NG3-21524 22-16	SPACE CABIN CLOSED ECOLOGICAL LIFE SUPPORT UNIT - SPACE CABIN MATER, DXYGEN, AND FOOD SUPPLY
	EFFECT OF CLOSED SYSTEM ON PHYSIOLOGICAL FUNCTIONS	UCRL-10589 N63-13073 07-16
	OF ANIMALS - SPACE BIOLOGY N63-21525 22-16	GAS CHROMATOGRAPHIC MEASUREMENT OF TRACE CONTAMINANTS IN SIMULATED SPACE CABIN
	ROLE OF TIME FACTOR IN RADIATION REACTIONS OF CENTRAL NERVOUS SYSTEM - SPACE BIOLOGY N63-21526 22-16	NASA-TN-0-1825 N63-13189 07-07 ORBITAL ELEMENTS OF SPUTNIK IV CABIN
	PRODUCTIVITY OF VARIOUS FORMS OF UNICELLULAR ALGAE	RAE-TRANS-1029 N63-15554 12-32
	IN SPACE N63-21527 22-16 INTENSIFICATION OF PHOTOSYNTHETIC PRODUCTIVITY OF	REPAIR OF LEAKAGE IN MANNED SPACE VEHICLE CABIN - PLASTIC & ADMESSIVE SEALS
	CULTURE OF UNICELLULAR ALGAE IN SPACE	ASD-TDR-62-1015 N63-10032 10-30
	N63-21528 22-16	SELECTION OF SPACE CABIN ATMOSPHERES - OXYGEN TOXICITY
	SPACE FLIGHT SIGNIFICANCE OF PHOTOADAPTATION AND PHOTOREACTIVATION IN PLANT ORGANISMS - SPACE	NASA-TN-D-2008 N63-20754 21-16
	BIOLOGY N63-21529 22-16	SPACE CABIN SIMULATOR
	BIOLOGICAL EFFECTIVENESS OF HIGH ENERGY PROTONS - SPACE BIOLOGY N63-21530 22-16	CF TRAINING EQUIPMENT COMFINEMENT STUDY OF A MINIMUM SIZE SPACE CABIN SIMULATOR FOR THE LUMAR MISSION
	MUTATIONAL ACTIVITY OF ANTIPARTICLES - SPACE BIOLOGY N63-21531 22-16	ARS PAPER-2644-62 N63-11261 03-16
	EFFECT OF HIGH ENERGY PROTONS ON OCCURRENCE RATE OF MUTATIONS - SPACE BIOLOGY N63-21532 22-16	RESPIRATION AT PROLONGED EXPOSURE TO HIGH ALTITUDES WITHOUT HYPOXIA IN SPACE CABIN SIMULATOR SAM-TDR-63-31 N63-20651 20-16
		ALTHOUGH THE CONTRACT OF THE STREET OF THE S

MECHANISM OF SHIELDING AGAINST WHOLE BODY PROTON IRRADIATION - SPACE BIOLOGY M63-21533 22-16 URINARY EXCRETION OF CORTICOSTERONE-LIKE HORMONES AND CATECHOLAMINES STUDIED IN PILOTS IN THO-MAN

22-16

SPACE 22-16 VITY 22-16

22-16 LIFE 22-16

P OF 22-16

ACE 24-01 ANTSH 24-16 S 24-16 N 24-16

24-16 RIAL 24-16 HYTHM 24-16

1NG 02-29 NBTN 07-16

7-07 2-32 N -8-30

1-16 N 3-16

ATOR 0-16

NES

SPACE CABIN SIMULATOR N63-22667 23-14	SPACE SYSTEMS - SH SATELLITE RELAYS A TO-937
PSYCHOLOGICAL EFFECTS OF SAM TWO-MAN SPACE CABIN SIMULATOR SAM-TDR-63-27 N63-23338 24-14	Z-MODE SPACE RADIO AFCRL-62-1059
SA REACURY CAPSULE	SPACE COMMUNICATION AND DATA PROCESSING
FORCE MEASUREMENTS ON A DATA CAPSULE IN THE WAKE AND FLOW FIELD OF A CARRIER VEHICLE AT MACH 8 AEDC-TDR-62-220 N63-11425 03-02	SPACE COMMUNICATION RADIO-NAVE SPECTRU INTERFERENCE REDUC
RADIANT HEAT TRANSFER TO SIMULATED SPACE CAPSULE IN LUMAR ENVIRONMENT SIMULATION CHAMBER GRA-63-2 N63-13418 08-13	SPACE COMMUNICATION SATELLITES BY RADA PCE-R-9854A
HIGH ALTITUDE PARACHUTE TESTING - SPACE CAPSULE RECOVERY NASA-TM-X-232 N63-17991 16-04	SPACE SCIENCE - PR
SOVIET SATELLITES, SPACE CAPSULES & SPACE PROBE	SPACE SCIENCE - PE SYSTEM - INTERNATION ASTRONOMY
GECOMPRESSION SICKNESS DUE TO PRESSURE DROP IN	SPACE COMMUNICATION
PRESSURIZED CABIN OR SPACE CAPSULE N63-18942 18-16 SPACE CAPSULES FOR DATA COLLECTION & TRANSMISSION	RADIO ELECTRONICS RADIO ASTRONOMY IN JPRS-20588
OF CHARACTERISTICS OF MARS & VENUS ATMOSPHERES NASA-CR-50956 N63-20816 21-32	NOTES ON SATELLITE TRAJECTORIES, REEN
SPACE CHARGE SPACE CHARGE-FLOW THEORY AND ELECTRODE DESIGN FOR ELECTROSTATIC ROCKET ENGINES NASA-TN-D-1461 N63-10735 02-27	LASER - DEATH RAYS NAVIGATION JPRS-20959
TRANSVERSE SPACE CHARGE EFFECTS IN PARTICLE ACCELERATORS NURA-649 N63-10740 02-23	FREE ENTERPRISE IN COMMERCIAL SPACE C
NEUTRON AND GAMMA RAY DISCRIMINATION IN ORGANIC SCINTILLATORS AND PHOTOMULTIPLIERS USING THE SPACE CHARGE EFFECT N63-14110 09-15 SPACE-CHARGE LIMIT AND CONFINEMENT IN PARTICLE	BEAM ELEVATION REL PREDICTION METHODS COMMUNICATION HEAS NBS-TW-180
ACCELERATION WITH HIGH-INTENSITY LIGHT NAVES - LASER RADIATION FOR ACCELERATION SLAC-12 N63-14556 10-23	BIBLIOGRAPHY OF GR
SPACE CHARGE EMISSION IN PLASMA MAGNETRON GENERATOR WITH SMOOTH-SORE ELECTRODES AFCRL-63-41 N63-15672 12-24	SID-63-60 SPACE DEBRIS PLANETARY & INTERP SYSTEM, PLANETS &
ION NEUTRALIZATION OF SPACE CHARGE IN BRILLOUIN BEAMS - MICROWAVE TUBES EE-545 N63-16072 13-09	SPACE DEBRIS HAZAR HASA-CR-52076
SPACE CHARGE WAVES IN PLASMA - HEAT BALANCE AND ENERGY LEVEL NSF-TR-4 N63-17635 16-24	SPACE DETECTION AND T SPACE DETECTION AN MATHEMATICAL MODEL EARTH SATELLITES U-2202
SPACE CHARGE EFFECTS IN CYCLOTRON MAVE DEVICES - DC PUMPED PARAMETRIC AMPLIFIERS - MICROMAVE SPECTRUM STUDY N63-18708 17-23	SPACE ENVIRONMENT CF EXTRATERRESTRIAL CF LIFE SUPPORT SYST
TRANSIENT MOTION OF SPACE-CHARGE IN PULSE- IRRADIATED GAP MIC-036 N63-20839 21-24	AMRL-TOR-62-100
EFFECTS OF SPACE CHARGE ON TRANSVERSE WAVES OF ELECTRON BEAMS N63-22253 23-09	MINIMUM WEIGHT DES AN AEROSPACE ENVIR ASO-TOR-763
SPACE CHARGE & IONIZATION REGIONS NEAR ARC CATHODE ARL-63-163 N63-22501 23-09	EFFECTS OF SPACE E ANNOTATED BIBLIOGR PLASTEG-12
IDENTIFICATION OF SPACE CHARGE REGION REAR CARBON ARC CATHODE IN NITROGEN OR ARGON - PLASMA GENERATOR N63-23480 24-24	LABORATORY IN SPACE BIOLOGICAL EFFECTS
PACE COMMUNICATION OF TELEMETRY TRENDS IN MISSILE AND SPACE RADIO TELEMETRY	EFFECT OF SPACE EN ARS PAPER-2536-62
WGL PAPER-4 N63-10003 01-08	SOLID ROCKET PROPE

DATA SENSORS AND INFORMATION ACQUISITION IN SPACE N63-10770 02-15

SPACE SYSTEMS - SHARING BETWEEN COMMUNICATIONS SATELLITE RELAYS AND TERRESTRIAL MICROWAVE RELAYS TO-937 N63-11929 04-01
Z-MODE SPACE RADIO PROGRAM AFCRL-62-1059 N63-12146 05-05
SPACE COMMUNICATIONS - NASA PROGRAMS, TRACKING, AND DATA PROCESSING N63-12295 05-06
SPACE COMMUNICATION - PROPAGATION AND NOISE IN RADIO-MAYE SPECTRUM - TELEMETRY TRANSMISSION INTERFERENCE REDUCTION N63-13850 09-08
SPACE COMMUNICATIONS TECHNIQUES - OBSERVATION OF SATELLITES BY RADAR TRACKING PCE-R-9854A N63-15696 12-08
SPACE SCIENCE - PROBLEM AREAS OF COMMUNICATIONS IN SPACE N63-17051 15-08
SPACE SCIENCE - PERFECTING THE COMMUNICATIONS SYSTEM - INTERNATIONAL COOPERATION AND RADIO N63-17053 15-08
SPACE COMMUNICATIONS - RADIO, LASERS, AND MASERS JPL-TM-33-85 IS-08
RADIO ELECTRONICS FOR SPACE COMMUNICATIONS AND RADIO ASTRONOMY IN THE SOVIET UNION JPRS-20588 19-08
NOTES ON SATELLITES, SPACE NAVIGATION, TRAJECTORIES, REENTRY, TRACKING AND COMMUNICATIONS N63-20340 20-29
LASER - DEATH RAYS, SPACE COMMUNICATION, SPACE NAVIGATION JPRS-20959 1817-3 3342 81 2391 N63-21026 21-23
FREE ENTERPRISE IN SPACE - DEVELOPMENT OF COMMERCIAL SPACE COMMUNICATION - NASA PROGRAM N63-21143 21-01
BEAM ELEVATION RELATIONS CALCULATED BY PATH LOSS PREDICTION NETHODS BASED ON TROPOSCATTER COMMUNICATION NEASUREMENTS NBS-TN-180 N63-21446 22-12
BIBLIOGRAPHY OF GROUND ANTENNA FEEDS FOR SPACE COMMUNICATION SID-63-60 N63-22772 23-09
SPACE DEBRIS PLANETARY & INTERPLANETARY ENVIRONMENT - SOLAR SYSTEM, PLANETS & THEIR SATELLITES, RADIATION & SPACE DEBRIS HAZARDS NASA-CR-52076 N69-22865 23-27
SPACE DETECTION AND TRACKING SYSTEM /SPADATS/ SPACE DETECTION AND TRACKING SYSTEM /SPADATS/ MATHEMATICAL MODEL TO DESCRIBE DABITAL MOTION OF EARTH SATELLITES U-2202 N63-2098 21-32
SPACE ENVIRONMENT CF EXTRATERRESTRIAL ENVIRONMENT CF LIFE SUPPORT SYSTEM RENOTE HANDLING IN SPACE AMRL-TDR-62-100 M65-10075 01-14
MINIMUM WEIGHT DESIGN OF STRUCTURES OPERATING IN AN AEROSPACE ENVIRONMENT ASD-TDR-763
EFFECTS OF SPACE ENVIRONMENT ON PLASTICS - ANNOTATED BIBLIOGRAPHY PLASTEC-12 NAS-10170 01-19
LABORATORY IN SPACE, METEOROLOGICAL SATELLITE,
EFFECT OF SPACE ENVIRONMENT DN PHOTOVOLTAIC CELLS
ARS PAPER-2536-62 N63-10263 01-06 SOLID ROCKET PROPELLANT SYSTEM FOR EXTERNED
STORAGE IN SPACE ENVIRONMENT N63-10800 02-26

EFFECTS OF SPACE ENVIRONMENT ON MATERIALS - SYMPOSIUM	TURBOMACHINERY BEARING CONFIGURATIONS - TESTS FOR LONG TERM, UNATTENDED OPERATION WITH LOW VISCOSIT LUBRICANTS IN SPACE ENVIRONMENT
IMPROVED COATINGS FOR TEMPERATURE CONTROL IN A SPACE ENVIRONMENT N63-10916 02-13	HERAT BEENE WAN-ONT HAR TO STORE M63-15249 12-1
HIGHLY REFLECTING COATINGS FOR THE SPACE ENVIRONMENT N63-10917 02-13	CAPILLARY ACTION LIQUID OXYGEN CONVERTER FOR WEIGHTLESS SPACE ENVIRONMENT AMRL-TOR-63-10 N63-15620 12-1
EMITTANCE AND ABSORPTANCE IN COATINGS FOR SPACE APPLICATIONS N63-10918 02-13	SPACE SCIENCE - SPACE VEHICLE RADIATION SHIELDING
FABRICATION OF FOAMED POLYURETHANE STRUCTURES IN A SPACE ENVIRONMENT N63-10923 02-19	ENVIRONMENT N63-15967 13-1 EXPOSURE OF EARTH SATELLITES TO ALBEDO AND PLANE
EFFECT OF SPACE ENVIRONMENT ON REINFORCED PLASTICS N63-10925 02-19	RADIATION - SECONDARY RADIATION ENVIRONMENT AEDC-TDR-63-92 N63-16346 14-
LUBRICATION IN SPACE ENVIRONMENTS N63-10929 02-17	HEAT DISSIPATION IN SPACE ENVIRONMENTAL CHAMBERS RADIATION TRANSHISSION THROUGH SHIELDING FOR CRYOPUMPING SURFACES
PERFORMANCE OF LUBRICANTS AND THERMAL CONTROL MATERIALS UNDER SIMULATED SPACE CONDITIONS N63-10934 02-17	AEDC-TOR-63-75 N63-16530 .14- SPACE ENVIRONMENT SIMULATION CHAMBER INSTRUMENTATION
FACILITIES FOR SPACE ENVIRONMENT SIMULATION - HIGH TEMPERATURE, ACOUSTICS, VIBRATION, RADIATION, HIGH	AEDC-TDR-63-113 N63-17068 15-1 ANNOTATED BIBLIOGRAPHY - MISSILE ENVIRONMENT IN
VACUUM ARTC-30 N63-11182 03-10	MID-FLIGHT AND REENTRY SB-61-68 N63-17639 16-
BEAM NEUTRALIZATION TESTS OF ELECTRON BOMBARDMENT ENGINE MODEL IN SIMULATED SPACE ENVIRONMENT ARS PAPER-2663-62 N63-11267 03-27	SPACE VEHICLE ENVIRONMENT SIMULATION N63-17734 16-
BIOASTROMAUTICS - SPACE ENVIRONMENT, HUMAN PERFORMANCE	WET TANTALUM CAPACITORS FOR SPACE ENVIRONMENT ADN-03-16-62-1 N63-18095 16-
NASA-SP-18 N63-11508 03-16	SPACE ENVIRONMENTS - VACUUM, THERMAL VACUUM, ULTRAVIOLET AND PARTICLE RADIATION - EFFECTS ON PLASTIC MATERIALS - THERMODELATICS
LABORATORY TECHNIQUES IN SPACE ENVIRONMENT RESEARCH NASA-SP-26 N63-11516 03-23	PLASTIC MATERIALS - THERMOPLASTICS N63-18728
NASA-SP-26 N63-11516 03-23 ENVIRONMENTAL TESTING PROCEDURES FOR TRANSIT SATELLITE PAYLOAD EQUIPMENT TG-416-8 N63-11735 04-30	SIMULATION OF SPACE ENVIRONMENTS WITH HIGH ENERGY PENETRATION RADIATIONS USING PARTICLES GENERATED BY HIGH ENERGY ACCELERATORS AEDC-TDR-63-118 N63-18731 17-
ENVIRONMENTAL PROBLEMS OF SPACE FLIGHT STRUCTURES - PART II, METEOROID HAZAROS NASA-TN-D-1493 05-30	DEEP SPACE ENVIRONMENT SIMULATION - THERMAL AND VACUUM LEVEL SIMULATION
MECHANISM OF HUMAN LOCALIZATION OF SOUNDS WITH APPLICATIONS IN REMOTE ENVIRONMENTS NOTS-TP-3109, PT- 2 N63-12495 06-08	EFFECTS OF SPACE VACUUM ENVIRONMENT, METEOROIDS, ELECTRONS, ELECTROMAGNETIC RADIATION AND IONS ON METALS, PLASTICS, CERANICS, DILS AND LUBRICANTS
ATMOSPHERE AS PART OF NEAR-EARTH SPACE ENVIRONMENT NASA-TN-0-1387 N63-12586 06-21	M63-19109 18- VACUUM ULTRAVIOLET RADIATION EFFECTS ON MATERIAL IN VACUO - SPACE ENVIRONMENTAL RESEARCH FACILITY
COMPOSITION, TEMPERATURE, DENSITY AND PRESSURE OF THE ATMOSPHERE RELATED TO THE SPACE ENVIRONMENT N63-12587 06-21	WADD-TR-60-371, PT. II M63-19326 18- COMBINED USE OF LIQUID AND GASEOUS HELIUM AS REFRIGERANT TO PROVIDE SIMULATED SPACE
RADIATION BALANCE OF EARTH ATHOSPHERE - REVIEW OF ENERGY EXCHANGE PROCESSES RELATED TO SPACE ENVIRONMENT N63-12588 06-21	REFRIGERANT TO PROVIDE SIMULATED SPACE ENVIRONMENT N63-19618 19- SPACE ENVIRONMENT EFFECTS ON INSULATING PROPERTI
VINDS & HOTIONS OF ATMOSPHERE RELATED TO SPACE	SPACE ENVIRONMENT EFFECTS ON INSULATING PROPERTY OF TEFLON RESINS
OBJECTIVES OF SPACE BIOLOGY - SEARCH FOR EXTRA-	PILOT REACTION TO HIGH SPEED ROTATION - HUMAN PERFORMANCE IN SPACE ENVIRONMENT N63-20213 20-
TERRESTRIAL LIFE, SUPPORT OF MANNED SPACE FLIGHT, STUDY OF ORGANISM-ENVIRONMENT RELATIONSHIPS N63-12836 06-16	SPACE ENVIRONMENT SIMULATOR CONSTRUCTION PROBLEM N63-20218 20-
HEAT TRANSFER OF METAL SURFACES - THERMAL LESISTANCE FOR SPACE ENVIRONMENT APPLICATIONS - LUMINUM-BERYLLIUM STUDY	HANDBOOK OF THERMOPHYSICAL PROPERTIES OF SPACE- CRAFT MATERIALS - THERNAL RADIATION AND MATERIAL STABILITY IN SPACECRAFT ENVIRONMENT LMSC-8-55-63-3
RICTION AND WEAR IN SPACE ENVIRONMENT AND	SPACECRAFT AND DYNAMIC LOADS IN SPACE ENVIRONMEN
UBRICATION FOR SPACECRAFT MECHANISMS	192 x 19 - HOWNA NO HENDRED M63-20876 AT 21-
UBRICATION FOR SPACECRAFT MECHANISMS N63-13457 OB-17 ON VISCOSITY LUBRICANTS AND BEARING STABILITY IN	SPACE ENVIRONMENT AND ATMOSPHERIC STRUCTURE RELATIVE TO SPACECRAFT DESIGN
UBRICATION FOR SPACECRAFT MECHANISMS N63-13457 OB-17 OW VISCOSITY LUBRICANTS AND BEARING STABILITY IN PACE ENVIRONMENT N63-13677 OB-17	RELATIVE TO SPACECRAFT DESIGN N63-20877 21- MATERIALS SCIENCE RESEARCH AND TESTING AND THE
UBRICATION FOR SPACECRAFT MECHANISMS N63-13457 OB-17 OW VISCOSITY LUBRICANTS AND BEARING STABILITY IN	RELATIVE TO SPACECRAFT DESIGN N63-20877 21-

SFOR 12-17

12-16 DING 13-30 ANET

14-28 ERS -4-08

5-15 N 6-30 6-30

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29

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10

29 ES

4 0

3

SYSTEM BY EXPOSING ROCKET MATER TO SIMULATED SPACE ENVIRONMENTS	IS STATE OF THE PROPERTY.
RTD-TDR-63-1050, VOL. 1	N63-20999 21-29
SPACE ENVIRONMENT - IONIZING PA ELECTROMAGNETIC RADIATION, EXOS METEOROID ENVIRONMENT	PHERE AND
ATD-TDR-63-1050, VOL. 2	CONTRACTOR SACRET
DEGRADATION OF POLYMERS BY HIGH ENVIRONMENT - MASS SPECTROSCOPY MATERIALS	SECOND RES
NASA-CR-50952	55 - 707 Flor 150 Fr 1890
SPACE ENVIRONMENTS - SOLAR COSM SOLAR PLASMAS - PARTICLE DENSIT MASA-CR-51405	Y AND DISTRIBUTION N63-21976 22-28
DIELECTRICS IN SPACE ENVIRONMEN	N63-22686 23-01
SPACE ENVIRONMENT AS A DIELECTR AND MICROMETEOROID EFFECTS	N63-22687 23-29
SPACE ENVIRONMENT EFFECTS ON EL OF DIELECTRICS	N63-22690 23-29
NUCLEAR RADIATION, COSMIC RAYS, RADIATION BELT EFFECTS IN SPACE	SOLAR FLARES, 6 N63-22691 23-23
FAILURE MODES OF DIELECTRICS IN ENVIRONMENT - LABORATORY STUDY	SPACE
INDRGANIC MOTOR INSULATORS IN SHIGH TEMPERATURE AND IRRADIATIO	PACE ENVIRONMENT -
LIQUID AND SOLID ROCKET OPERATI	ATTACAM SOM AC MONTH
SPACE ENVIRONMENT MASA-CR-52044	N63-22864 23-27
SPACE ENVIRONMENT LUBRICATION R AEDC-TDR-63-154	
ACE EXPLORATION F LUMAR EXPLORATION PHYSIOLOGICAL HEAT PROBLEMS OF WGL PAPER-64	SPACE TRAVEL
MUCLEAR-ELECTRIC SPACECRAFT FOR EXPLORATION JPL-TR-32-303	
SOVIET SPACE EXPLORATION	BAR - TARF RAK
JPRS-16187	N63-10320 01-32
SPACE PROGRAMS SUMMARY NO. 37-1 OCT 1962 - SPACE EXPLORATION PR SCIENCES	ROGRAMS & SPACE
JPL-SPS-37-17, VOL. VI	N63-10334 01-29
THE CHALLENGE OF SPACE EXPLORAT	110N N63-10495 01-29
SOVIET ROLE IN SPACE EXPLORATION	TAX TO LINE DETAIN HIS TAXO
AND IV - SPACE FOOD AND AND IN-	N63-10992 02-01
SPACE PROGRAMS SUMMARY NO. 37-1 1962 - DEEP SPACE INSTRUMENTATI JPL-SPS-37-18, VOL. II	18 - SEPT TO NOV ION FACILITY N63-11052 03-10
GEOPHYSICS AND ASTRONOMY IN SPA	ACE EXPLORATION N63-11503 03-12
LUNAR AND PLANETARY SCIENCES IN	SPACE EXPLORATION N63-11504 03-29
GAS DYNAHICS IN SPACE EXPLORATION NASA-SP-24 TRAILING THE THE LANGE OF THE PROPERTY OF THE PRO	
PLASMA PHYSICS AND MAGNETOHYDRO	DOYNAMICS IN SPACE
EXPLORATION NASA-SP-25 MATERIALS FOR SPACE EXPLORATION	H03-11313 U3-24
	EUROPEAN COMPENS

5	PACE PROGRAMS SUMMARY NO. 37-18 - VOL 6. SEPTIME 1962 - SPACE EXPLORATION PROGRAMS 6 SPACE ICIENCES PL-SPS-37-18, VOL. VI TABRESON NOS-12361 05-	
	MARINER SPACECRAFT - VENUS PROBE & SPACE N63-12359 06-	
5	PACE EXPLORATION & SPACE SCIENCE - CONFERENCE LODGESSES	
	NASA GEOPHYSICS AND ASTRONOMY PROGRAM FOR SPACE EXPLORATION H69-19173 UT-	
5	SOIL SCIENCE IN SPACE EXPLORATION - SOIL STERILIZATION AS PART OF DECONTAMINATION PROGRAM FOR SPACE FLIGHT JPL-TR-32-399 No3-13598 DB	-
	MASA PROGRAMS FOR SPACE EXPLORATION MOS-13744 CD	b
*	SPACE EXPLORATION - RESULTS, PLANS, AND HOTIVAT	
1	SPACE PROGRAMS SUMMARY NO. 37-19 - VOL 4, NOV 1 TO JAN 1963 - SPACE EXPLORATION PROGRAMS ? SPAC SCIENCES - 051F, RANGER, MARINER & VOYAGER PROJ PIL-SPS-37-19, VOL. VI N63-14902 11	E
	SPACE SCIENCE - INTERNATIONAL COOPERATION IN SP EXPLORATION N63-16015 13	
-	INTERNATIONAL COOPERATION IN SPACE RESEARCH N63-16674 14	įχ
1	INTERNATIONAL COOPERATION IN SPACE RESEARCH 100 NAS-16697 14	36
	SPACE PROGRAMS SUMMARY NO. 37-20 - VOL VI. JAM MAR 1963 - SPACE EXPLORATION PROGRAM & SPACE SCIENCES	1
	JPL-SPS-37-20, VOL. VI SPACE EXPLORATION & HUMAN BEHAVIOR - SPACE FLIG LUNAR MISSION, SPACE TECHNOLOGY, SATELLITES N63-17236 15	H
1	SPACE EXPLORATION - METEOROLOGICAL AND COMMUNICATION SATELLITES - MERCURY AND APOLLO PROJECT N63-17252 15	a
	SPACE EXPLORATION BY SATELLITES - MANNED SPACE FLIGHT AND X-15 AIRCRAFT H63-17392 15	Ä
	NOTIVATION FOR SPACE EXPLORATION - INTERNATIONAL LEADERSHIP AS THE REPRESENTATIVE OF CAPITALISM N63-17009 16	и
1	SPACE HISSION CAPABILITIES OF SATURN V AHO NOVA LAUNCH VEHICLES WITH MUCLEAR ENGINES ALAA PAPER-63-286 N63-17613 16	
1	SPACE EXPLORATION SYSTEM BY REMOTE INTERACTION SYSTEM - CYBERMETICS N63-17954 11-10	Ø
i de	IN-FLIGHT SIMULATION PERTIMENT TO MANNED SPACE EXPLORATION - LAUNCH, ORBITAL, REENTRY & LANDIN APPROACH PHASES AGARO-403 M63-18840 18	96
	SOUNDING ROCKETS IN SPACE EXPLORATION AS TO A STURM)J UB
	LAUNCH VEHICLES FOR PEACEFUL EXPLORATION OF THE UNIVERSE UND 1901 A 33498 OFF A 18 NO. 10926 B 18	1
ø	PHYSICISTS AND THEIR ROLE IN SPACE EXPLORATION N63-20000 19	6)
1	ASTRONOMICAL ASPECTS OF SPACE EXPLORATION + ASTRONOMER AND ENGINEER RELATIONSHIP, ASTRONOMIUMITS, AND THREE RODY PROBLEM	IC
1	REASONS FOR MANS SPACE EXPLORATION - ABROSPACE REDICINE NOS-20556 20	ř

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NASA PROGRAM FOR EXPLORATION D	F SPACE N63-21127	21-32	WATER MODERATED REACTORS FOR M UNMANNED SPACE FLIGHT	UCLEAR ROCKETS N63-13579	S IN 00-27
INTERNATIONAL COOPERATION IN SINASA PROGRAM	N63-21137	21-01	SOIL SCIENCE IN SPACE EXPLORAT STERILIZATION AS PART OF DECON PROGRAM FOR SPACE FLIGHT	HOITANIHAT	12/11
GOALS OF SPACE SCIENCE PROGRAM UNIVERSITIES TO SPACE EXPLORAT			JPL-TR-32-399 ORBITAL MECHANICS - DIFFERENTI	N63-13598 AL CORRECTION	04-21
NUCLEAR-ELECTRIC PROPULSION SYS 1-B BOOSTER CHAIN FOR UNMANNED	STEM USING SAT	TURN	PROCESS FOR NEARLY CIRCULAR OR TO SPACE FLIGHT GUIDANCE PROBL RM-3554-PR	BITS AND APPLI	ICATION 10-29
OF SOLAR SYSTEM NASA-CR-51015	N63-21348	21-32	HYPERVELOCITY LAUNCHERS WITH A SPACE FLIGHT - PART I, CONSTAN	PPLICATIONS TO	0
VISUAL PERCEPTION OF COLOR IN SAPPLICATION AND INSTRUMENTATION NASA-CR-51343		770N - 22-15	STAGE, LIGHT-GAS GUNS UTIA-REV-22	N63-14400	10-10
SPACE EXPLORATION WITH SCIENTIN	O MARCHENICAL	NAME OF THE PARTY	SPACE FLIGHT TECHNOLOGY - PROP AND AERODYNAMICS	ULSION, STRUCT N63-14582	TURES, 10-01
MARINER R-2 VENUS PROBE NASA-TM-X-50312	N63-21911	22-29	APPLICATION OF CRYOGENIC PROPU		142 1944
INTERNATIONAL ASPECTS OF EXPLOS OUTER SPACE, 1954 TO 1962	RATION AND USE N63-22840	OF 23-01	MISSIONS - ENERGY REQUIREMENTS PAYLOADS, ABLATION, RELIABILIT		12-27
U.S. SPACE PROGRAM - MASA CONTR KNOWLEGGE OF ATMOSPHERIC COMPOS NASA-TM-X-50963		24-29	SPACE SCIENCE - LAUNCHING AND OPERATIONS	SPACE FLIGHT N63-15979	13-34
METEOROID HAZARDS IN SPACE EXPL NASA-TH-D-1839	ORATION	24-29	SPACE SCIENCE - AUTOMATIC CONT MISSIONS	ROL IN SPACE N63-15981	13-10
APPRAISAL OF HANS CAPABILITIES	AND LIMITATIO	150000	ORBIT-LAUNCH NUCLEAR DESIGN AN EVALUATION PROCEDURE FOR ESCAP		
SPACE EXPLORATION SYSTEMS - LIF REQUIREMENTS	N63-23452	24-32	MISSION MTP-PEVE-F-62-11		14-30
PACE FLIGHT	OL CAMILTANA	THE	NASA SPACE FLIGHT PROGRAM	N63-16748	14-32
SA MANMED SPACE FLIGHT CODING METHOD FOR A REPORTING S TRAVEL MGL PAPER-43	URGERIUM AND BERTHAL	01-20	ORBIT LAUNCHED NUCLEAR VEHICLE DESIGN AND PERFORMANCE EVALUATION PROCEDURE FOR ESCAPE AND		
HGL PAPER-43 CHEMICAL ROCKET PROPULSION FOR		1136	PLANETARY MISSION NASA-TH-D-1570	N63-16986	15-34
GLERICAL ROCKET PROPULSION FOR WGL PAPER-53 BIODYNAMIC PROBLEMS OF AIR AND	N63-10048	01-27	ASCENT FROM LUNAR SURFACE - SI RETURN TO EARTH PHASE OF SPACE NASA-TN-0-1644	MISSION	2.5744
MGL PAPER-66	M63-10061	01-16	MASA-TH-U-1644 EARTH-HOON SYSTEM TRAJECTORY -	N63-16987	15-21 RTH
PROCEDURE FOR CALCULATING RADIA SPACE MISSIONS			PHASE OF SPACE MISSION - FREE I SPACE FLIGHT MASA-TN-D-1893	RETURN FROM LU	
USE OF MAGNETIC AND SOLAR ENERG FROM METEORS, BASED ON TSANDERS AID-62-179	SPACE FLIGHT	WORK	SPACE PROGRAMS SUMMARY NO. 37- MAR 1963 - SPACE EXPLORATION P	20 - VOL VI, J	JAN TO
CONFERENCE ON PEACEFUL USE OF S MERCURY, APOLLO, GEMINI PROJECT			SCIENCES JPL-SPS-37-20, VOL. VI		15-21
COMMUNICATION SATELLITES NASA-SP-8	N63-11137	03-01	APPLICABILITY OF SOLID PROPELLI PERFORMANCE LAUNCH VEHICLES JPL-TR-32-352	ANTS TO HIGH N63-17166	15-21
CELESTIAL MECHANICS AND SPACE P		S 03-05	POTENTIAL FOR TELEMETRY IN REC WAVES FROM ANIMALS AND MEN EXP	ORDING OF BRAI	IN
CHIMPANZEE PERFORMANCE DURING S	IMULATED SPAC	12 YZ	SPACE FLIGHT - BIOTELEMETRY NASA-CR-50205	N63-17206	15-1
ARL-TOR-62-23	N63-11790	04-16	SPACE MISSION RELIABILITY PRED		14.21480
MANNED PLANETARY SPACE FLIGHT -			STRESS ANALYSIS	N63-17282	15-3
AUTOMATING SPACEFLIGHT TRAJECTO COMPUTER METHODS FOR INCLUDING	PHYSICAL AND	RAJA	HUCLEAR-ELECTRIC PROPULSION SPE ENERGY SPACE MISSION	N63-17706	16-3
MISSION CONSTRAINTS LAS PAPER-63-05	N63-12901		ELECTROENCEPHALOGRAPHY IN SINUI SPACE FLIGHT WITH REFERENCE TO NASA-CR-50206		DBLEMS
REACTIONS OF TITANIUM WITH GASE OXYGEN UNDER SIMULATED SPACE FL IMPACT SENSITIVITY DMIC-MEMO-163	IGHT CONDITIO	NS -	PLIGHT OPTIMIZATION AND GUIDANG	CE SYSTEMS THE	1.2330
HIGH ENERGY LIQUID CHEMICAL PRO PART I, PROPELLANT SELECTION FO	PULSION SYSTEM	MS - ONS	GUIDANCE SYSTEMS AND FLIGHT OP FOR SPACE FLIGHT	TIMIZATION THE	0.2840
THEER RELATIONSHIP ASTAUNGMICAL	N63-13081		HAZARD OF PROTON-INDUCED IONOS	TANKE STANSON OF	0.00000
COMPLEX MAN-MACHINE SYSTEMS, LO		68706V	SPACE FLIGHT SAFETY		

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-34 IN

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-27)F -16 16-

16

	,				
MBIT TRAFFIC - MANNED INTERPLAN	ETARY SPACECRA N63-18916 1	FT 8-32	SPACE FOOD SOVIET ROLE IN SPACE EXPLORATI		
SPACE FLIGHT TECHNOLOGY AND RESE		IN 8-30	JPRS-16718	N63-10992	02-01
COUNTY RADIATION PROTECTION DURI	NG SPACEFLIGHT	17 74%	PLANTS FOR CLOSED ECOLOGICAL : FOOD - GAS EXCHANGE		GE 03-16
CIVIL APPLICATION OF SPACE FLIGH	TS IN EUROPE -	TOM -	ANIMAL NUTRITION STUDIES - CH	N63-11483	03-16
COMMUNICATIONS SATELLITES VELOCITY REQUIREMENTS FOR STOPOV	HOLD THE STATE OF	18-01	HUTRITIONAL ASPECTS OF MANNED	CTRRZESS-LERGIO	06-16
SPACEFLIGHT TO MARS FOR DEPARTUR 10 1977 88-3474-PR	MACH INSCRIPTION OF THE	971	CLOSED ECOLOGICAL LIFE SUPPORT		CABIN
COMPUTER SIMULATION FOR ORBITAL	STILL THE WAR PLANT	to 19	UCRL-10589	N63-13073	07-16
Mary Controlled	N63-19472 1	19-01	FOOD REFRIGERATION AND HABITAL CONTROL SYSTEM FOR SPACE VEHIC	CIES - DESIGN.	TEST
SPACE FLIGHT		D 19-16	PHASE, AND FABRICATION AMRL-TOR-62-149	N63-16422	
STRUCTURAL DYNAMICS PROBLEMS IN SPACE MISSION MASA-TN-D-2059	APPENDED AND	TURE 19-34	PRESERVATION OF FACZEN FOODS MISSIONS - NONELECTRONIC APPAI AMRL-TOR-63-31	N63-17492	16-16
SPACE FLIGHT ADAPTIVE GUIDANCE T RECHANICS, CALCULUS OF VARIATION PROGRAMS, & SATURN VEHICLE APPLI HASA-TM-X-50237	S, COMPUTER CATIONS	TIAL 20-29	ACCEPTABILITY OF DEHYDRATED FI CONFINEMENT - PHYSIOLOGICAL, PSYCHOMOTOR EFFECTS	OGO DURING PSYCHOLOGICAL A	
HASA-TH-X-50237 HISSION CAPABILITIES AND DESIGN		EDUF M.C.	AMRLTTOR-63-9 MOTTADINAK - 285	34-81	1-3134
SATELLITES AND LAUNCH VEHICLES	33492 - 5401	20-32	DEVELOPMENT OF SUPERIOR DIETS NASA-CR-50520	N63-18374	17-16
ELECTRONIC APPARATUS RELIABILITY HILITARY AVIATION AND SPACEFLIGH	T	20/31/3	MULTIPLE USES OF FOOD, MATER, MANNED SPACE FLIGHT - AEROSPA	CE MEDICINE	KERAW AT
NOWER SYSTEMS AND POWERPLANT SEL	ECTION FOR SPA	20-09 ACE 21-27	SPACE GLIDER S DYNA SOAR SPACE GLIDER & OWA	FROME - SPACE	23FB947 4:
ORBITAL SPACE FLIGHT - TRAJECTOR GRBITAL MECHANICS, PERTURBATIONS RENDEZVOUS AND SATELLITE LIFETIN	, MANEUVERING.	1962 1962 1964	SPACE LAW COMMUNICATIONS SATELLITE ACT RELATIONS AND LEGAL ASPECTS - HEARINGS	- INTERNATIONAL CONGRESSIONAL	T-AEAH
MSA-SP-33, PT. 1 33444 40 3	N63-21101 2	21-32	HR-11040 ALEKWENE AT ALE	N63-15434	12-01
SPACE FLIGHT HANDBOOK - ORBITAL PROPULSION CALCULATIONS MASA-SP-33, PT- 2	TAX PROFTACTION	21-32	SATELLITE COMMUNICATIONS - SE SPACE LAW 10 COM - 215MAJ- CM		
THEORETICAL MODELS OF THE D. E. UPPER IONOSPHERE AND SELECTION O	AND F REGIONS	i ema	AMTARCTIC TREATY AS A GUIDE T TREATY - INTERNATIONAL COOPER AIAA PAPER-63-285	ATION AND SPACE	E LAW
BEST FIT SPACE FLIGHT OBSERVATION	NS	21-12	SPACE HAINTENANCE	T FIRE SPACE-VE	SANSONE
SPACE TRAVEL AND HUMAN THERMAL L	IMITS - SELECT	rED	CF ORBITAL MORKER SPACECRAFT ORBITAL RENDEZVOUS EQUATION FOR DOCKING - SPACE		TION
\$9-61-33 VACABLA ROIS NOUS OIS	N63-21305	21-16	AMRL-TOR-62-124	N63-15320	12-29
CREW ACCOMMODATIONS FOR AEROSPAC MRL HEMO. V-6	E MISSIONS	22-16	ARC JET PROPULSION SYSTEM IN SATELLITE DISTRIBUTION, MAINT	PERFORMANCE OF ENANCE, AND REI	PAIR
LIFE SUPPORT SYSTEMS FOR SPACE T	RAVEL IN SOVIE	ET _{28A}	DN 62-126 TO GRADE THE STATE OF	H63-15682	12-27
CRAFT A10-62-194	N63-21688	22-16	MANS EXTRAVEHICULAR SPACE MAI		
SPACE FLIGHT OF VOSTOK V AND VOS	A STATISTICS AS	PANEL	SPACE MECHANICS	AN NO GREENIST	CARRAGE
JPRS-21138	AND A LOCALIST N	22-32	PHENOMENA - PLASMA DENSITY, D	IPOLE MAGNET	35年4日第
SPACE FLIGHT - BRIEF LOG OF FLIG OF VOSTOK V AND VOSTOK VI	HE3-21932	22-32	ENERGY STORAGE & MAGNETIC FIE	N63-12618	COMET
PRESS CONFERENCE ON SPACE FLIGHT VOSTOK VI COSMONAUTS			FABRICATION & OPERATION - FAS HECHANICS	HES-16007	13-23
SPACE FLIGHT AND RADIATION HAZAR REFFECT OF IONIZING RADIATION	N63-21934		SPACE MECHANISM DESIGNED FOR MOTION JPL-TM-33-106	LIMITED PARALL	
PRESENT AND FUTURE ASPECTS OF SP JPRS-20892	N63-22098	22-29	SPACE HAVIGATION	APPARETAS AND	
NANNED SPACE FLIGHT - SUMMARY	H63-22116	22-29	CF ASTRONAUTICS CELESTIAL BACKGROUND SINULATI		SHARRO

SIGHTING PROBLEMS ASSOCIATED WITH SEXTANT TYPE MEASUREMENT OF STAR POSITION FOR SPACE MAVIGATION

ELECTRIC PROPULSION POWER SYSTEMS FOR NEAR EARTH E DEEP SPACE MISSIONS N63-22451 23-27

SPAC DEC PROP JPL-SPAC 196: INS JPL HAS THE

FR

NA SE CI

NASA-TN-0-1653	N63-14444	10-22	TRACKING AND DATA ACQUISITION SYST	EMS FOR SP	ACE
SPACE SCIENCE - SPACE NAVIGATION ON-BOARD TRACKING	W - GROUND V N63-16002			63-19201	18-01
VISUAL SIMULATION TECHNIQUES FOR FLIGHT TRAINING - HIGH RESOLUTION	RASTRONAUTI		RING CURRENT - MEASUREMENTS MADE O SATELLITES AND SPACE PROBES NASA-CR-50760 N	N EARTH 63-19293	10-11
ELECTRONIC PLANETARIUM AMRL-TDR-63-54, VOL. 1	N63-19434	19-10	SPACE PROBE DATA CONDITIONING AND	odiverned 4	
NOTES ON SATELLITES, SPACE NAVIO TRAJECTORIES, REENTRY, TRACKING	ATION, AND COMMUNI	CATIONS	Think Tables - ran sair realist	63-20913	21-20
REDUNDANT MEASUREMENTS FOR SPACE		Et-H	FUSION PROPULSION SYSTEM REQUIREME INTERSTELLAR PROBE NASA-CR-50964	63-21324	-072(S)
RANDOM VARIABLES, STATE VECTOR, A1AA PAPER-63-333	N63-20757	21-29	ORIGIN OF AURORA - REVIEW OF HYPOT PLANNED SATELLITE AND SPACE PROBE	EXPERIMENT	
LASER - DEATH RAYS, SPACE COMMUN NAVIGATION JPRS-20959	NA3-2102A		THEFTON AMETINA MENTING SATA FROM AL	63-23443 TELLITES &	1019
ACE ORIENTATION EFFECT OF FIELD OF VIEW AND ORIE	11-14-NO	77-200A	PROBES - GALACTIC COSMIC RAY INTER SOLAR MAGNETIC FIELD - SOLAR PLASM	ACTION HIT	Hotel
REQUIRED FOR STAR FIELD IDENTIF		TTERN	RATIONAL PROGRAM FOR PLANETARY EXP	LORATION U	24-1 ISING
ACCURACY OF MANUAL OPTICAL THEOL THE CENTER OF A PLANETARY DISK			SPACE PROBES OF INCREASING SOPHIST MERCURY, VENUS, AND MARS DATA REVI N	EN 63-23449	24-1
SPACE REFERENCE SYSTEMS - NAVIG	N63-14446 ATION AND GU	10-22 IDANCE	SPACE PROGRAM SA USSR SPACE PROGRAM	TESDS - K-M	1,5208
ACIC-TR-98	N63-14856	11-29	CF NASA PROGRAM SPACE PROGRAMS SUMMARY NO. 37-17 - OCT 1962 - SPACE EXPLORATION PROGR	VOL 6. JU	ILY TI
A DUMBBELL SPACE PROBE A MARINER R-2 SPACE PROBE A MARINER I SPACE PROBE		1011 000	SCIENCES JPL-SPS-37-17, VOL. VI		
A MARINER II SPACE PROBE F LUNAR PROBE		NAP 92451	SPACE PROGRAMS SUMMARY NO. 37-17 - PROGRAMS - TELECOMMUNICATIONS - GU		
F VENUS PROBE PROJECT FIRE - SPACE AND REENTRY STATIC STABILITY			CONTROL - PROPULSION JPL-SPS-37-17, VOL. IV	63-10939	02-
NASA-TN-D-1497 SUHMARY OF REPORTS ON LUNAR EXPI		LYCLEGICUT	SPACE PROGRAMS SUMMARY NO. 37-18 - 1962 - DEEP SPACE INSTRUMENTATION		03-
ASTRODYNAMICS, AND SPACE VEHICLE	RECOVERY N63-12149		ECONOMIC IMPORTANCE OF SPACE PROGR	AH TEE-9	2-421
NASA-SPONSORED SPACE RESEARCH - RELATIONSHIPS, MOON AND PLANETS, SATELLITE AND SPACE PROBE DATA I	AND ASTRON	IONA -	COMMUNICATIONS SATELLITE PROGRAM - RELAY, AND SYNCOM PROJECTS	63-11154 ECHO, TEL	159
PRESSURE DISTRIBUTIONS OVER FORM	N63-12841		ARS PAPER-2617-62 NASA-UNIVERSITY CONFERENCE ON SPAC	63-11253	03-
PROJECT FIRE SPACE-VEHICLE CONFI SUBSONIC SPEED		SPACE MATE	GEOPHYSICS, ASTRONOMY, CELESTIAL M BIOASTRONAUTICS - VOL I		AND
PAYLOAD CONSIDERATIONS FOR THE S VEHICLE-1B SPACE PROBE /SLV-1B/ SLV-18-3	MEET DRIEFEAL	SPATELO	NASA-UNIVERSITY CONFERENCE ON SPAC CHEMICAL AND ELECTRIC PROPULSION - GAS DYNAMICS AND PLASMA PHYSICS -	E - NUCLEA	uR,
DRY HEAT IRRADIATION AND CHEMICS SPACE PROBE COMPONENTS TO AVOID EXTRATERRESTRIAL ENVIRONMENT		ON OF	SPACE RESEARCH - ASTRONOMY, LUNAR RESEARCH, BIOLOGY, SOLAR ATMOSPHER	& PLANETAR	03-
PHOTOGRAPHY OF THE MOON FROM SPA JPL-TR-32-347	NE PROBES N63-14677		AND CELESTIAL MECHANICS NAS/NRC-1079	62-73280	04-
CHARACTERISTICS OF MARS AND VENU FROM GAS DYNAMICS OF SPACE PROBE NASA-TN-D-1770	VEHICLE.		PANEL ON SCIENCE & TECHNOLOGY - RO RADIO ASTRONOMY, GEODETIC SATELLIT CONGRESSIONAL HEARINGS		04-
COMEY INTERCEPT MISSION - ORBIT PROBE DESIGN, BOOSTER REQUIREMEN	DETERMINATI	ON,	OWNERSHIP OF PATENTS ORIGINATING U CONTRACTS FOR AERONAUTICAL & SPACE CONGRESSIONAL HEARINGS	RESEARCH	Shand
MEASUREMENT OF INTERPLANETARY DU	IST BY SATEL	LITES	ECONOMIES IN NATIONAL SPACE PROGRASTANDARDIZATION TECHNIQUES, SEA-LA		PLANE
AND SPACE PROBES SCIENTIFIC OBJECTIVES OF SPACE P		HOITON.	BOOSTERS - CONGRESSIONAL REPORT	63-12292	05-
SOVIET SATELLITES, SPACE CAPSULE	N63-17656	16-29	SPACE PROGRAMS SUMMARY NO. 37-18 - DEC 1962 - SPACE EXPLORATION PROGR	AMS & SPAC	E
DATA RAE-TRANS-1034	AL BARKPROW	1153733	JPL-SPS-37-10, VOL. VI	63-12341	05-
PERSONAL PROPERTY SCIENCE AND ADDRESS OF THE PERSONAL PROPERTY AND ADDRESS OF THE PERSONAL PROPER	ITY PRECISI		NASA PROGRAMS - GENERAL SUCCESS FA	CTORS INVE	OLVED

18-09 18-09

21-20

21-27

24-12 SPACE 24-29 ING

1 TO

2-01

3-10 I-01 IR,

-30

-29

29 04 01

1

1

SPACE PROGRAMS SUMMARY NO. 37-18 DEC 1962 - SPACE PROGRAMS, GUIDA PROPULSION	NCE, ENGINEE	RING.	SUPPORTING RESEARCH AND ADVANCED DEVELOPMENT FOR SPACE PROGRAM NASA-CR-51783 N63-22581 23-30
JPL-SPS-37-18, VOL. IV SPACE PROGRAMS SUMMARY NO. 37-19	- VOL IV. 0	EC	BUSINESSHEN REVIEW SPACE PROGRAMS NASA-CR-51798 N63-23071 24-01
1962 TO JAN 1963 - PROPULSION, TI INSTRUMENTS, MECHANICS, GUIDANCE 191-SPS-37-19, VOL. IV	ELECOMMUNICA	TIONS. 08-01	SPACE STATIONS AND THE NATIONAL SPACE PROGRAM
MASA SEVENTH SEMIANNUAL REPORT TO THROUGH JUNE 30, 1962	N63-13635	08-01	RELIABILITY CONTROL IN SPACE PROGRAMS N63-23242 24-29
AFRONAUTICS AND SPACE ACTIVITIES PRESIDENTIAL REPORT TO CONGRESS	- U.S.	08-01	SPACE RADIATION CF GAMMA RADIATION EFFECTS OF SPACE RADIATION ON ELECTRONIC COMPONENTS M63-10928 02-09
FRENCH SPACE TECHNOLOGY PROGRAM.	N63-14861	11-29	INTENSITY OF RADIO EMISSION FROM SPACE USING
INITED STATES SPACE PROGRAM - SU	HMARY N63-15257	12-29	RADIO TELESCOPE N63-11554 04-05 NASA SPACE RADIATION EFFECTS LABORATORY
NATIONAL BUREAU OF STANDARDS CON SPACE EFFORT - MEASUREMENTS AND CONGRESSIONAL MEARINGS	CALIBRATIONS	90/8/164	NASA PROGRAM FOR SPACE RADIATION EFFECT LABORATORY TO STUDY SPACE ENVIRONMENT FOR SPACE SYSTEM
SPACE PROGRAMS SUMMARY NO. 37-20 MAR 1963 - GUIDANCE, PROPULSION,	- VOL 4, FE	в то	ENGINEERING #3224 #4 #2 2324 #2 2324 #4 #2 2324 #4 #2 2324 #4 #2 2324 #4 #2 2324 #4 #2 2324 #2 2324 #2 2324 #2 2324 #2 2324 #2 2324 #2 2324 #2 2324 #2 2324 #2 2324 #2 2324 #2 2324 #2 2324 #2 2324 #2 2324 #2 2324 #2 2324
JPL-SPS-37-20. VOL. IV LINEAR PROGRAMMING TECHNIQUES AP	PLIED TO HU	IAN	EXPOSURE OF EARTH SATELLITES TO ALBEOD AND PLANET RADIATION — SECONDARY RADIATION ENVIRONMENT AEDC-TDR-63-92 N69-16946 14-28
RELIABILITY IN SPACE PROGRAMS - CREW TASKS ADMINISTRATION AND MANAGEMENT OF	N63-17278	15-20	SPACE RADIATION - INTERPLANETARY PLASMA & GALACTIC RADIATION - SOLAR COSMIC RAYS AND GEOMAGNETICALLY TRAPPED PARTICLES N63-16470 14-28
AUMINISTRATION AND HANAGERENT OF	N63-17503	16-01	ENERGY DISSIPATION IN TISSUE FOR PROTON RADIATION
AMALYSIS AND SUMMARY OF RESPONSE MARRICAN ACDEMY OF ARTS AND SCI SPACE PROGRAM AS SUBJECT FOR STU MASA-CR-50306	ENCES CONCE	RNING	IN SPACE - COMPARATIVE ANALYSIS OF LET SPECTRA OF FLARE PRODUCED AND FISSION NEUTRON RECOIL PROTONS NASA-CR-50044 200432 20042 N63-16679 14-24
U.S. SPACE PROGRAM SUMMARY		18-01	SPACE RADIATION MAP - INNER AND OUTER RADIATION BELT, AURORAL ZONE, INTERPLANETARY SPACE
SOCIOLOGY AND THE SPACE PROGRAM NASA-CR-50437	N63-18864	18-01	M63-18145 16-28 SATELLITE MEASUREMENT OF SPACE RADIATION MEAR
NOLE OF ENGINEERING IN SPACE PRO	GRAM	ANNAG	EARTH AND IN COSMIC SPACE N63-18443 17-28
UNITED STATES SPACE PROGRAM - LA		18-01	HAZARD OF PROTON-INDUCED IONOSPHERIC RADIATION TO SPACE FLIGHT SAFETY N63-18775 17-28
SATELLITES AND SPACECRAFT ACCOMPLISHMENTS AND GOALS OF U.S	N63-19368	18-01	ANALYTICAL METHOD FOR DOSE RATE DETERMINATION IN ABSORBER SYSTEMS EXPOSED TO SPACE RADIATION N63-19490 19-28
PROGRAM JAS SYRD RED LENGTH DE	N63-20929	21-29	SPACE SCIENCES FOR INTERPLANETARY TRAVEL - SPACE
IMPORTANCE OF SPACE PROGRAM - EC EXPLORATION, SCIENCE, & TECHNOLO NASA-TM-X-50290		21-29	RADIATION, SATELLITES AND EXTRATERRESTRIAL LIFE M63-19621 19-01
SPACE PROGRAMS SUMMARY - DEEP SP	ACE	STATE EQ. JAN	SPACE RADIATION - VAN ALLEN BELT, SOLAR FLARES, SOLAR MIND, AND GALACTIC COSMIC RAYS ASD-TDR-62-606 M63-19738 19-28
INSTRUMENTATION FACILITY NASA-CR-51009	N63-21350	21-08	EFFECTS OF NATURAL SPACE RADIATION ON SPACECRAFT
SPACE PROGRAMS SUMMARY - SPACE E PROGRAMS AND SPACE SCIENCES	S APPLICATION	20,000	SYSTEMS LIFE - PHOTOGRAPHIC FILM DEGRADATION DZ-90037 N63-20172 20-28
NASA-CR-51232 NASA HISTORICAL DRIGINS AND PROG	N63-21902 RAM N63-21927	22-32	SPACE RADIATION EFFECTS ON SOLAR CELL POWER SYSTEMS IN SPACECRAFT
SPACE PROGRAMS SUMMARY - SUPPORT ADVANCED DEVELOPMENT		22-01 H AND	NASA-SP-3003 NASA-20315 20-06 RADIATION SHIELDING OF MAN IN SPACE - AEROSPACE MEDICINE NASA-20571 20-16
MASA-CR-51559 AL - J. DELEVERONO		22-01	DECAMETRIC RADIATION FROM JUPITER - SYNOPTIC
SPACE PROGRAMS SUMMARY - SPACE E PROGRAMS AND SPACE SCIENCES MASA-CR-51577	AND SHIPES	22-32	DESERVATIONS 1957 TO 1961 - RADIATION STORM MEASUREMENTS N63-20691 21-05
INTERNATIONAL COOPERATIVE SPACE	BUILDING	SAAGE	FINE STRUCTURE OF SPECTRAL EMITTANCE OF JUPITER IN DECAMETRIC REGION - NOISE STORMS N63-21064 21-29
UNIVERSITY ROLE IN SPACE PROGRAMEDUCATION	IS - NEED FO		RADIATION DAMAGE TO ELECTRONIC APPARATUS AND
PICTORIAL REVIEW OF FIRST FIVE V	and the	ave and	REIC-32 N63-23779 24-28 SPACE RADIATOR
IN SPACE	N63-22033	22-29	SPACE RADIATOR MATERIALS PROBLEMS WITH THE DESIGN OF RADIATORS

SPAC

SPI

SP FR EN

					-91
FOR SPACE POWERPLANTS ARS PAPER-2535-62	N63-10262	01-06	CEMMERSON (AND PERMERTAL FEMALESCE)		1.335
EMITTANCE OF MATERIALS SUITABLE			LUNAR AND PLANETARY SCIENCES IN SP NASA-SP-14	ACE EXPLOR	ATEM 03-29
SPACECRAFT RADIATOR COATINGS ARS PAPER-2538-62	N63-10264	01-06	STRUCTURES FOR SPACE SCIENCE - WIN PLANETARY ENTRY VEHICLES, CONFIGUR	GED VEHICLE	ES,
METEOROID PROTECTION FOR SPACE 8 ARS PAPER-2543-62	RADIATORS N63-10265	01-06	NASA-SP-28	163-11518	03-34
ANALYSIS OF A MEGAWATT LEVEL DIR RADIATOR FOR SPACE POWER SYSTEM	RECT CONDENS	ER-	SPACE RESEARCH - ASTRONOMY, LUNAR RESEARCH, BIOLOGY, SOLAR ATMOSPHER AND CELESTIAL MECHANICS	& PLANETAR	ZATIM
ARS PAPER-2545-62	N63-10266	01-06		63-11562	04-61
SPACE RADIATOR STUDY - CONDENSER RANKINE CYCLE SPACECRAFT POWERPL ER-4544		POR 05-06	MASA AUTHORIZATION, 1963, PART 4, PROGRAM - CONGRESSIONAL HEARINGS	SPACE SCIENTS	NCES O4-61
LARGE SPACE RADIATORS IN FIELD OF	F ELECTRIC	11-06	COMMUNICATIONS SATELLITE EXPERIMENT OF THE CONGRESSIONAL REPORT	TS - 163-11728	04-01
SATELLITE COOLING DEVICE FOR INF	RARED DETEC	TOR	AEROSPACE BIBLIOGRAPHY		
ARRAYS AND SPACE RADIATORS SSD-TDR-63-243	N63-20704	21-13	AU-290-61-RSI SPACE PROGRAMS SUMMARY NO. 37-18 -	63-12294	05-01
" SPACE SCIENCE PHYSICS OF THE SOLAR SYSTEM		01-05	DEC 1962 - SPACE EXPLORATION PROGR SCIENCES	AHS & SPACE	E .
SPACE PROGRAMS SUMMARY NO. 37-17			#577/57#6###0501#975#637.59=0## \23##		05-29
OCT 1962 - SPACE EXPLORATION PRO SCIENCES JPL-SPS-37-17, VOL. VI	M63-10334		NASA PROGRAMS - GENERAL SUCCESS FA	63-12364	06-61
SOVIET BLOC RESEARCH IN GEOPHYSI			SPACE EXPLORATION & SPACE SCIENCE	- CONFERENC	CE
SPACE SCIENCES /NO. 48/ 1962 JPRS-16455	N63-10526			63-12715	06-01
REENTRY PHYSICS, RAREFIED GASDYN PHYSICS, SPACE SCIENCES	AMICS, PLASI	HA	NASA-SPONSORED SPACE RESEARCH - GE RELATIONSHIPS, MOON AND PLANETS, A SATELLITE AND SPACE PROBE DATA REV	ND ASTRONOMIEW	NY T
JPL BIBLIOGRAPHY ON SPACE SCIENCE JPL-BIBL-39-3	E, 1961-1962 N63-10765		GRAVITY - SPACE SCIENCE - NUCLEAR	63-12841	06-21
STATEMENT OF NASA ADMINISTRATOR	M MOLTHEORS			63-12967	07-23
PROGRAMS, SPACE SCIENCE, ASTRONAUT	UTICS	02-29	SOCIAL AND MORAL RESPONSIBILITY OF ENGINEERS	63-13542	08-01
SOVIET-BLOC RESEARCH IN GEOPHYSIC SPACE SCIENCES /NO. 29/ 1962 JPRS-12445	CS, ASTRONOP	PALW	GAMMA RADIATION DETECTION AND MEAS EMPHASIS ON SPACE AND ASTRONAUTICA ABSTRACTS JPL-AI/LS-205		
SPACE AND THE WEATHER - METEOROLI SATELLITES - CONGRESSIONAL REPORT	TAMES IN ALL		JPL BIBLIOGRAPHY NO. 39-4, JULY 19	IZ ZSTATIL W	09-01
CONFERENCE ON PEACEFUL USE OF SPA	N63-11128		PROPOSED SPACE EXPERIMENTS FOR OBT		
MERCURY, APOLLO, GEMINI PROJECTS, COMMUNICATION SATELLITES			SYSTEM EVOLUTION SAO SPECIAL REPT111		22500
NASA-SP-8 SPACE SCIENCE — EARTH, SUN, AND S	N63-11137 STARS - RADI N63-11138	ATION	SPACE PROGRAMS SUMMARY NO. 37-19 - TO JAN 1963 - SPACE EXPLORATION PRI SCIENCES - DSIF, RANGER, MARINER &	DGRAMS & SP	PACE
SPACE SCIENCE - SOLAR PROBES, LAU SPACECRAFT	UNCH, AND UN N63-11139	MANNED 03-29	JPL-SPS-37-19, VOL. VI N. MICROPOWER TRANSISTOR LOGIC CIRCUIT	63-14902 TS FOR SPAC	11-29
U.S. FOREIGN POLICY IMPLICATIONS	OF SPACE SC N63-11153		ROLE OF ENGINEERING AND SCIENCE TO	-15855C-RB	11-09 CS AND
NOTES ON THE COSMIC SPACE SYMPOSI JPRS-16749	IUM, 1962 N63-11188	03-12	LAUNCH VEHICLES AND SPACECRAFT FOR	63-15874 EXPLORATIO	
METEOROLOGY, ELECTROMAGNETIC WAVE	S, AEROSPAC	ETOTA	SPACE AND PLANETS	63-15976	13-01
SCIENCE, PLASMA PHYSICS, SOLAR AN STUDIES AFCRL-62-714			SPACE SCIENCE - LAUNCH VEHICLE - SI	ATURN ROCKE 63-15977	13-31
SPACE SCIENCES - GEOPHYSICS, METE	OROLOGY	0.02/y16 1913	SPACE SCIENCE - PRELAUNCH PROBLEMS VEHICLES	OF SPACE 63-15978	13-10
NASA-UNIVERSITY CONFERENCE ON SPA	CE - ROCKET	s,	SPACE SCIENCE - LAUNCHING AND SPACE OPERATIONS	FLIGHT 63-15979	13-30
GEOPHYSICS, ASTRONOMY, CELESTIAL BIOASTRONAUTICS - VOL I MASA-SP-11, VOL. 1	MECHANICS A M63-11501	181018	SPACE SCIENCE - LAUNCH VEHICLE FIR	ING HISTORI 63-15980	
NASA-UNIVERSITY CONFERENCE ON SPA CHEMICAL AND ELECTRIC PROPULSION GAS DYNAMICS AND PLASMA PHYSICS -	- AERODYNAM	ics,	SPACE SCIENCE - AUTOMATIC CONTROL MISSIONS		13-10

FABRICATION & OPERATION - FASTENERS & SPACE MECHANICS M63-16007 13-23

SUBJECT INDEX PACE SCIENCE - STEP ROCKET OPTIMIZATION THEORY
N63-15982 13-10 2 03-21 LORATIO SPACE SCIENCE - EARTH-LUNAR MISSIONS - HIGH-ENERGY MOPELLANTS AND NUCLEAR PROPULSION SYSTEMS IN MANNED SPACE FLIGHT MANNED SPACE FLIGHT MG9-15983 13-29 ICLES, ND DESIGN 03-34 SACE SCIENCE - SOLID PROPELLANT ROCKET CLUSTERS TARY N63-15984 13-31 LIZATIO SPACE SCIENCE - EXPLORER SATELLITES LAUNCHED BY
JUND 1 AND JUND 2 VEHICLE CARRIER SYSTEMS
N63-15985 13-32 05-01 TENCES SPACE SCIENCE - EXPLORER SATELLITE THERMAL CONTROL
N63-15986 13-32 04-01 SPACE SCIENCE - SPACE VEHICLE RADIATION SHIELDING FROM NUCLEAR PROPULSION SYSTEMS AND SPACE ENTRONMENT N63-15987 13-30 SPACE SCIENCE - EVAPORATIVE FILM COOLING FOR HEAT TRANSMISSION OF HYPERSONIC REENTRY VEHICLES 05-81 EPT 10 CE N63-15988 13-13 SPACE SCIENCE - LIQUID PROPELLANT ROCKET ENGINES 05-29 N63-15989 13-27 BALLISTIC AND AERONAUTICAL SPACE TRAVEL PROPULSION SYSTEMS, ROCKETS AND SPACE VEHICLES
N63-15990 13-30 DL VED 06-01 ice. SPACE SCIENCE - ELECTRIC PROPULSION - ION, ARC AND PLASMA ENGINES N63-15991 13-27 06-01 TH-SU SPACE SCIENCE - ELECTRIC PROPULSION SYSTEMS FOR SPACE VEHICLES N63-15992 13 MY . 06-29 SPACE SCIENCE - ELECTRIC PROPULSION SYSTEMS - ELECTRIC ENGINE FOR SPACE VEHICLES N63-15993 13-27 07-23 SPACE SCIENCE - NAVIGATION - INERTIAL GUIDANCE N63-15994 13-22 AND 08-81 SPACE SCIENCE - LAUNCH VEHICLE AND CARRIER ROCKET GUIDANCE-CONTROL SYSTEMS N63-15995 13-0 H ONS -SPACE SCIENCE - ROCKET AND SPACECRAFT FLIGHT SIMULATION N63-15996 13-10 08-15 SPACE SCIENCE - SUPERCONDUCTIVITY IN BEARINGS FOR VACUUM OPERATION, ACCELEROMETERS AND CRYOGENIC EQUIPMENT - GYROSCOPES N63-15997 13-17 9-01 ON AR SPACE SCIENCE - TELEMETRY FOR GUIDED MISSILES AND SPACE VEHICLE CARRIER SYSTEMS - FROM V2 TO SATURN N63-15998 13-08 0-29 1962 SPACE SCIENCE - DOPPLER PRINCIPLE IN ROCKETRY -TRACKING SYSTEMS NO3-15999. 13-08 TE. JECT SPACE SCIENCE - SPACE VEHICLES - ROCKET SYSTEM
MANUFACTURE AND ASSEMBLY, GROUND AND FLIGHT
N63-16000 13-17 1-29 SPACE SCIENCE - TORQUE MODULATION AND INSTRUMENT EARON DETECTION CONCEPTS FOR GYROSCOPES AND ACCELEROMETERS N63-16001 13-1

4

Of

-31

10

36

61

.

SPACE SCIENCE - PROPELLANT FLOW METER - INTERVAL TRANSFORMER GAGE 13-15 SPACE SCIENCE - SATELLITE OBSERVATION OF GALACTIC SOLAR COSMIC RAYS - EXPLORER 7 N63-16009 13-28 SPACE SCIENCE - SPACECRAFT - JUNO LAUNCH VEHICLES AND RADIATION NEASUREMENT N63-16010 13-32 SPACE SCIENCE - GEODESY AND ROCKETRY SPACE SCIENCE - SPACECRAFT DESIGN FOR MANNED SPACE FLIGHT N63-16012 13-14 SPACE SCIENCE - SPACE BIOLOGY - SPACE VEHICLE
REQUIREMENTS N63-16013 13-16 SPACE SCIENCE - PHOBOS SPACE STATION FOR MARS EXPLORATION PRIOR TO MANNED SPACE FLIGHT TO MARS N63-16014 13-29 SPACE SCIENCE - INTERNATIONAL COOPERATION IN SPACE EXPLORATION N63-16015 13-01 REPORT OF NASA SUMMER INSTITUTE IN SPACE PHYSICS NASA-CR-50131 N63-16726 14-29 SPACE PROGRAMS SUMMARY NO. 37-20 - VOL VI, JAN TO MAR 1963 - SPACE EXPLORATION PROGRAM & SPACE SCIENCES SCIENCES JPL-SP5-37-20, VOL. VI M63-17003 15-29 ADVANCES IN SPACE MEDICINE, PHYSICS, AND COMMUNICATIONS N63-17048 COMMUNICATIONS SPACE SCIENCE - CONTRIBUTIONS TO SPACE PHYSICS N63-17049 1 SPACE SCIENCE - CONTRIBUTIONS TO AFROSPACE SPACE SCIENCE - PROBLEM AREAS OF COMMUNICATIONS IN SPACE M63-17051 15-00 SPACE SCIENCE - PROBLEM AREAS FACING COMMUNICATION SATELLITES M63-17052 15-32 SPACE SCIENCE - PERFECTING THE COMMUNICATIONS
SYSTEM - INTERNATIONAL COOPERATION AND RADIO
ASTRONOMY N63-17053 15-08 SCIENTIFIC OBJECTIVES OF SPACE PROBES N63-17656 16-29 SCIENCE, ENGINEERING AND TECHNOLOGY IN THE SPACE AGE N63-18914 16-01 SOVIET BLOC RESEARCH IN GEOPHYSICS, ASTRONOHY AND S REPORT WITH SECURE NO SPACE, ATOMIC, MUCLEAR, AND PLASMA PHYSICS UCRL-10862 N63-19226 SPACE SCIENCES FOR INTERPLANETARY TRAVEL - SPACE RADIATION, SATELLIYES AND EXTRATERRESTRIAL LIFE NG3-19621 19-01 COSMIC MINERALOGY - NEW BRANCH OF SCIENCE MASA-TT-F-170 MAS-19863 19-29 SPACE SCIENCE - BACKGROUND FOR HIGH SCHOOL STUDENT N69-20175 20-29 SPACE SCIENCE RESEARCH - INDEX & BIBLIOGRAPHY NAB-20512 20-29 APPLIED MECHANICS, SOLID STATE & QUANTUM EFFECTS, SPACE PHYSICS, COMMUNICATION THEORY & ELECTRON PHYSICS STL-9990-4343-RU-000 N63-20996 21-01 SOLAR-TERRESTRIAL RELATIONSHIPS AND SPACE

N63-16001 13-15

SPACE SCIENCE - SPACE NAVIGATION - GROUND VERSUS ON-BOARD TRACKING N69-16002 13-08

SPACECRAFT MATERIALS - MANUFACTURE OF BEARINGS, ACCELEROMETERS AND ELECTRONIC EQUIPMENT N63-16003 13-17

MANNED SPACECRAFT LAUNCH VEHICLE SUITABILITY MERCURY-REDSTONE PROJECT - JUPITER C - SPACE
SCIENCE M63-18004 13-30

MISSILE AND SPACE VEHICLE ELECTRICAL SYSTEMS SPACE SCIENCE N63-16005 13-06

SPACE VEHICLE PROPELLANT MANAGEMENT - RELIABILITY, MAINTAINMABILITY, M63-16006 13-01

SPA CF CF

SPA

SPI

59

SP

	PHYSICS - SOLID EARTH AND EARTH-ATMOSPHERE INTERFACE IGY GEN. REPT19 N63-21114 21-12	SPACE STATION SA MANNED ORBITAL SPACE STATION /MOSS/ APPLICATION OF SNAP-2 TO MANNED ORBITAL SPACE STATIONS
	SPACE SCIENCE PROGRAM - RELATION TO EDUCATION AND PHYSICS TEACHING	A1-7950 2837 42 HOLZ HORY FAST N63-12311 05-04
	NASA-EP-12 IN MOTTANG PER 311 111 N63-21456 22-29	SPACE SCIENCE - PHOBOS SPACE STATION FOR MARS EXPLORATION PRIOR TO MANNED SPACE FLIGHT TO MARS
	SATELLITE OBSERVATIONS OF SPACE PHENOMENA - MERCURY PROJECT N63-21970 22-29	N63-16014 13-29 EARTH ORBITING SPACE STATIONS - MANNED SPACE
	ENGINEERING CHALLENGE IN SPACE SCIENCES N63-22273 23-29	FLIGHT 1987 1987 1984 N63-17407 15-10
	BIBLIOGRAPHY - CHILDRENS BOOKS ON AERONAUTICS AND SPACE SCIENCES N63-22805 23-29	SPACE STATION DESIGN - MANNED SPACE FLIGHT N63-17408 15-10
	MILITARY AND SCIENTIFIC OBJECTIVES REQUIRING	SPACE STATION LOGISTICS AND OPERATIONS - MANNED SPACE FLIGHT N63-17409 15-32
	SPACE SCIENCE - VOICE OF AMERICA LECTURES ON	HABITABILITY IN SPACE STATIONS AIAA PAPER-63-138 N63-18341 17-30
	INTERNATIONAL COOPERATION N63-23436 24-01 MOTIVATION FOR SPACE EXPLORATION AND RESEARCH	MULTIPURPOSE, MANNED, ORBITAL SPACE STATION DESIGN AIAA PAPER-63-132 N63-19037 18-32
	ради NY 1901 24 33448 (ЗИИАН ДТ N63-23437 TA 24-01	SELECTION OF INSTRUMENTATION AND PERSONNEL FOR
	PROPOSED EXPERIMENTS FOR GRAVITATIONAL INTERACTION DECAY - IMPLICATIONS FOR PLANETARY & STELLAR AGES N63-23446 24-29	MANNED DRBITAL SPACE LABORATORIES ALAA PAPER-63-135 N63-19059 18-32
t	APPRAISAL OF MANS CAPABILITIES AND LIMITATIONS IN	GRAVITY DESIGN REQUIREMENTS FOR SPACE STATIONS AND MANNED SPACECRAFT N63-19492 19-16
	SPACE EXPLORATION SYSTEMS - LIFE SUPPORT REQUIREMENTS N63-23452 24-32	GRAVITY GRADIENT TORQUES ON A SUN-ORIENTED SPACE
	IMPETUS OF SPACE PROGRAM ON SENSORY AND ENVIRONMENTAL PHYSIOLOGY N63-23453 24-16	STATION NASA-CR-50785 N63-19851 19-29
	ORIGIN OF LIFE ON EARTH RELATED TO EXTRA-	FILAMENT WINDING FOR INFLATABLE CONSTRUCTION OF ERECTABLE SPACE STATION SECTIONS NASA-CR-50826 19-17
	AND THE RACE THE AND THE PROPERTY OF THE PROPE	SELF-DEPLOYING SPACE STATION
	SPACE SIMULATOR CRYOGENIC SYSTEMS FOR SPACE SIMULATION TEST CELL AEDC-TOR-62-201 N63-11606 04-10	NASA-CR-50735 N63-19951 19-32
	ION GAUGE CHARACTERISTICS IN AEROSPACE SIMULATOR AEDC-TDR-63-37 N63-12723 06-10	SELF-DEPLOYING SPACE STATION REQUIREMENTS FOR INFLATABLE SECTIONS ARC-R-58 N63-19953 19-32
	SURVEY OF LARGE SPACE CHAMBERS - VACUUM CHAMBERS TO SIMULATE SPACE ENVIRONMENT NASA-TN-0-1673 N63-14626 10-30	TRAINING AND TRAINING EQUIPMENT REQUIREMENTS FOR FUTURE GROUND OPERATORS & MAINTENANCE PERSONNEL OF ADVANCED SPACE STATIONS
	MOLECULAR FLUX DISTRIBUTION IN SPACE SIMULATOR -	AMRL-TDR-63-67 N63-21366 22-06
	GAS FLOW AND KINETIC STUDY OF MOLECULE-SURFACE INTERACTIONS AND COLLISION RATES	PRECESSION CONTROL AND ORBIT MAINTENANCE SYSTEMS FOR ROTATING SPACE STATIONS NASA-CR-51729 M63-22174 23-32
	SIMULATION OF SPACE ENVIRONMENTS WITH HIGH ENERGY	MANNED SPACE STATION SEALS AND CONNECTOR DEVICES
	PENETRATION RADIATIONS USING PARTICLES GENERATED BY HIGH ENERGY ACCELERATORS	NASA-CR-51303 24-32
	AEDC-TDR-63-118 N63-18731 17-28	SPACE STATIONS AND THE NATIONAL SPACE PROGRAM N63-23230 24-32
	DEEP SPACE ENVIRONMENT SIMULATION - THERMAL AND VACUUM LEVEL SIMULATION IAS PAPER-63-56 N63-18862 18-29	SPACE STORAGE
	IAS PAPER-63-56 N63-18862 18-29 SPACE SIMULATION ION GAUGES FOR VACUUM LEVEL	THE LIQUID-VAPOR INTERFACE CONFIGURATION IN WEIGHTLESSNESS ARS PAPER-2514-62 N63-10326 01-26
	MEASUREMENTS IN AEROSPACE ENVIRONMENTAL TEST	SOUTH ROCKET PROPELLANT SYSTEM FOR EXTENDED
	CHAMBERS AEDC-TDR-63-148 N63-19025 18-15	STORAGE IN SPACE ENVIRONMENT E194-62 N63-1088Q 02-24
	COMBINED USE OF LIQUID AND GASEOUS HELIUM AS REFRIGERANT TO PROVIDE SIMULATED SPACE ENVIRONMENT NS3-19618 19-29	THERMAL ASPECTS OF LONG-TERM STORAGE OF PROPELLANTS ON LUNAR SURFACE
	SPACE ENVIRONMENT SIMULATOR CONSTRUCTION PROBLEMS	ARS PAPER-2690-62 N63-11273 03-26
	VACUUM LEAK DETECTION APPLIED TO SPACE SIMULATION	ADVANCED HIGH ENERGY SPACE STORABLE PROPELLANT - DAYGEN BIFLUDRIDE, DIBORANE RMD-5507-F N63-13249 07-26
	CHAMBERS AEDC-TDR-63-142 N63-20734 21-10	SPACE STORABILITY OF PRESSURIZING GASES
	SPACE SIMULATOR TEST OF MARINER SPACECRAFT	MASA-CR-31320 M63-22138 22-26
	AUTOPILOT SYSTEMS WITH ROCKET MOTOR FIRING AIAA PAPER-63-343	SPACE SUIT CF PROTECTIVE CLOTHING EXCELSION PROJECT - BALLOON FLIGHTS, LIFE SUPPORT,
	SOLAR AND SPACE SIMULATOR FACILITY - MARINER 3	SPACE SUIT
	NASA-CR-50997 N63-21120 21-17	THERMAL INSULATION IMPROVEMENT DUE TO ATR FLOW THROUGH MATERIAL - AIR-VENTILATED SUIT
	The second secon	

FPRC/1202 N63-11811 04-13	HASA-SP-23
HUMAN LOCOMOTIVE PERFORMANCE IN ZERO GRAVITY - NEW TYPE SHOE FOR SPACE SULT AWRL-MEMO-P-23 N63-19093 18-14	ECONOMIES IN NATIONAL SPACE PROGRAM - ASTROPLANE - STANDARDIZATION TECHNIQUES, SEA-LAUNCHED BOOSTERS - CONGRESSIONAL REPORT M63-12292 05-01
SPACE SURVEILLANCE SYSTEM CF DEFENSE CF SURVEILLANCE DESIGN AND INSTALLATION OF HIGH POWER TRANSMITTER,	CHRONOLOGY OF MAJOR LAUNCHINGS OF SPACE VEHICLES BY MASA M63-12365 G6-01
NAVY SPACE SYSTEM, KICKAPOD STATION NRL-5717 N63-14995 11-08	SPACE VEHICLE SHIELDING - MODEL SQLAR FLARE ATTENUATION AND MONOENERGETIC PROTON BEAMS BY ALUMINUM SHIELDS
SPACE SYSTEMS ENGINEERING ATMOSPHERIC CONDITIONS AND INFLUENCE ON SPACECRAFT DESIGN, OPERATION - SPACE SYSTEM ENGINEERING FFM-56 N63-14334 10-29	GUIDANCE ANALYSIS OF EARTH-MOON LIBRATION POINT VEHICLE, BURMOUT ERROR, MIDCOURSE GUIDANCE RAL-TM-63-2 N63-13436 U8-29
FEASIBLE SOLAR PROBES FROM PRESENT PLANNED VEHICLE TECHNOLOGY - SATURN ROCKET - CENTAUR VEHICLE NASA-TN-D-1747 - N63-15055 11-32	FLIGHT CONTROL SYSTEMS, LINEAR TIME VARYING SYSTEM AND VEHICLE EQUATIONS OF MOTION ASD-TOR-62-362 N63-13544 08-20
NASA PROGRAM FOR SPACE RADIATION EFFECT LABORATORY TO STUDY SPACE ENVIRONMENT FOR SPACE SYSTEM ENGINEERING EP-63-678 N83-15165 11-29	SPACE VEHICLE LAUNCHING AND ASSOCIATED NOISE - SATURN LAUNCH VEHICLE - OPERATIONAL PROBLEMS RESULTING FROM VIBRATION N63-13857 09-30
SPACE SYSTEMS ENGINEERING - EUROPEAN COOPERATIVE SPACE VEHICLE AND ROCKET LAUNCHER DEVELOPMENT N63-18931 18-30	SPHERE OF INFLUENCE CONCEPT APPLIED TO SPACE FLIGHTS - DISCUSSION OF OPTIMUM LAUNCH DATES AND TIMES, INITIAL VELOCITIES AND FLIGHT COMDITIONS RAE-TRANS-1019 N63-13952 09-29
SPACE TEMPERATURE TESTS OF POLYMERS CONTAINING SILICON & NITROGEN IN SPACE TEMPERATURES	MEASUREMENT OF PARTICLE DAMAGE TO SURFACES OF SPACE VEHICLES AFCRL-63-20L N63-14064 09-30
SPACE-TIME FUNCTION ACOUSTICAL SPACE-TIME INFORMATION PROCESSING	PHOTOYOLTAIC CONVERSION OF SOLAR ENERGY INTO ELECTRICAL ENERGY FOR AUXILIARY POWER IN SPACE VEHICLE SYSTEMS N63-14148 09-06
SONAR ACR-63 134234342 134241 1863-13659 08-20	GUIDANCE OF SPACE VEHICLES - MIDCOURSE AND TERMINAL GUIDANCE N63-14715 10-22
REACTOR TECHNOLOGY - REACTOR CORE POWERPLANT, GADOLINIUM SEPTA, SPACE-TIME SYMTHESIS PROBLEMS, CERANIC FUEL WATER, TEFLON, & ROLLED-IN TUBE WAPO-BY-28 NOS-15261 12-10	MULTIFUNCTION SPACE VEHICLE GUIDANCE SENSORS N63-14754 11-22
SPACE AND TIME SYNTHESIS BY VARIATION METHOD FOR REACTOR CORE DESIGN PROBLEMS - REACTOR TECHNOLOGY	ANALYSIS OF WEIGHT PARAMETERS INFLUENCE ON PROPULSION REQUIREMENTS OF ORBIT-LAUNCHED VEHICLES MASA-TN-0-1525 M63-15351 12-34
ANALYSIS OF SPACE-TIME DYNAMICS OF POWER TO ANALYSIS OF SPACE-TIME DYNAMICS OF SPACE-TIME DYNAMICS OF POWER TO ANALYSIS OF SPACE-TIME DYNAMICS OF	HYPERVELOCITY PUNCTURING OF ELASTONER SELF-SEALING STRUCTURE FOR SPACE VEHICLE MSL-63-53 M63-15390 12-34
KAPL-2217 N63-15410 12-10 SPACE-TIME CORRELATION MEASUREMENTS OF LOCAL MEAN VELOCITY IN MIXING REGION OF A JET	INERTIAL NAVIGATION ERROR ANALYSIS OF SPACE VENICLE DURING REENTRY NASA-TN-D-1772
SPACE & TIME VARIATIONS IN ATMOSPHERIC TRANSMISSION AT RUNWAY - SHORT RANGE WEATHER	MULTIFUNCTION SENSORS FOR SPACE VEHICLE GUIDANCE AND NAVIGATION - STAR FIELD TRACKING, N63-15916, 13-22
FORECASTING FOR AIR TRAFFIC CONTROL N63-20269 20-08	SPACE SCIENCE - PRELAUNCH PROBLEMS OF SPACE VEHICLES N63-15978 13-10
SPACE TRAJECTORY PROGRAM PERTURBATION CONTROL FOR MIDCOURSE GUIDANCE IN SPACE TRAJECTORY PROGRAM AIAA PAPER-63-222 M63-17924 16-22	BALLISTIC AND AERONAUTICAL SPACE TRAVEL - PROPULSION SYSTEMS, ROCKETS AND SPACE VEHICLES M63-15990 13-30
SPACE VEHICLE SA INTERORBITAL SPACE VEHICLE /IOSV/	SPACE SCIENCE - ELECTRIC PROPULSION SYSTEMS FOR SPACE VEHICLES N63-15992 13-27
CF SPACECRAFT SYMPOSIUM ON BALLISTIC MISSILE & SPACE TECHNOLOGY, 1962 - VOL 1, SPACE VEHICLES, HYPERSONICS,	SPACE SCIENCE - ELECTRIC PROPULSION SYSTEMS - ELECTRIC ENGINE FOR SPACE VEHICLES N63-15993 13-27
REENTRY, STRUCTURES, MATERIALS & RELIABILITY AM-84 SHELL STABILITY IN MISSILES AND SPACE VEHICLES	SPACE SCIENCE - TELEMETRY FOR GUIDED MISSILES AND SPACE VEHICLE CARRIER SYSTEMS - FROM V2 TO SATURN M63-15990 13-00
MATERIALS THERMAL PROPERTIES AND ENVIRONMENTAL THERMAL SIMULATION SUPPORTING FACILITIES FOR	SPACE SCIENCE - SPACE VEHICLES - ROCKET SYSTEM MANUFACTURE AND ASSEMBLY, GROUND AND FLIGHT TESTING N63-16000 13-17
MISSILES AND SPACE VEHICLES NG3-10913 02-13 THERMOSTATIC TEMPERATURE CONTROL DURING ASCENT AND	SPACE VEHICLE PROPELLANT MANAGEMENT - RELIABILITY, MAINTAINABILITY. 10-01
AERODYNAMICS OF SPACE VEHICLES AERODYNAMICS OF SPACE VEHICLES	SPACE SCIENCE - SPACE BIOLOGY - SPACE VEHICLE REQUIREMENTS NO3-16013 13-16

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METEOROIDS AS POSSIBLE HAZARD TO	SPACE VEHI	CLE	FORMULAS FOR ORBIT DETERMINATION OF SPACE
OPERATIONS - BIBLIOGRAPHY S0-63-1	N63-16275	13-30	VEHICLES NASA-CR-52270 H63-23805 24-2
FOOD REFRIGERATION AND HABITABLE CONTROL SYSTEM FOR SPACE VEHICLE PHASE, AND FABRICATION	S - DESIGN,		LEAK DETECTION METHODS FOR SPACE VEHICLE SEALING SYSTEMS TESTS WITH BIBLIOGRAPHY NASA-CR-52323 N63-23808 24-1
AMRL-TOR-62-149 RAMINSONOE DATA FOR SPACE VEHICL ANALYSIS NASA-TM-X-50020	E TRAJECTOR		SPACE VEHICLE CONTROL EMERGENCY NAVIGATION PROCEDURE WITH HIDCOURSE CORRECTIONS FOR SPACE VEHICLES IN RETURNING FROM THE MOON
PLASMA WAVE EXCITATION BY LINE C INDUCTION - RADIO COMMUNICATION SPACE VEHICLES	URRENT MAGN	ETIC ES AND	NASA-TN-0-1765 N63-14028 09-2 ELECTROMAGNETIC ATTITUDE CONTROL OF SPACE VEHICLE AFCRL-63-03 N63-14820 11-2
SPACE VEHICLE ENVIRONMENT SINULA		16-30	OPTIMIZATION OF BOOST AND GLIDE TRAJECTORIES FOR SORTIE REENTRY VEHICLE - COMPUTER CONTROL PROGRAM N63-15635 12-3
FITTING SOLID PROPELLANT ROCKET VEHICLE DESIGN	41-41-1-1	SPACE	MISSILE AND SPACE VEHICLE ELECTRICAL SYSTEMS - SPACE SCIENCE N63-16005 13-0
LUBRICATION SYSTEM REQUIREMENTS VEHICLES AND AIRCRAFT	INTERNITAL TRAIN	11000	SPINNING UNGUIDED ROCKET TRAJECTORY /SPURT/ PROGRAM - SPACE VEHICLE CONTROL AND TRAJECTORY HEASUREMENT BY DIGITAL COMPUTER
AIR FORCE HYDRAULIC FLUID REQUIR VEHICLES, AIRCRAFT, AND MISSILES		OK L V	AFSHC-TDR-63-11 N63-16896 14-2 REENTRY GUIDANCE FROM GROUND OPERATIONAL SUPPORT
ELECTRIC POWER CONVERSION AND CO SPACE VEHICLES WITH IONIC PROPUL		16-17 ES ON	SYSTEM FOR SPACE VEHICLES N63-17972 16-3 SPACE MEAPON PROPOSED TREATY FOR BANNING MEAPONS IN SPACE
AIAA PAPER-63-243 MOTION OF SPACE VEHICLES IN SOLA	N63-17923		JPL-SM-40-1 N63-10953 02-0
SATELLITE ORBIT FOR INTERPLANETA	RY FLIGHT N63-18432	17-29	SPACECRAFT SA APOLLO SPACECRAFT SA EUROPEAN I SPACECRAFT SA GENINI SPACECRAFT
SPECIALIZED CLIMATIC CRITERIA /N ENVIRONMENT/ GUIDELINES FOR SPAC GROUND SUPPORT SYSTEMS	E VEHICLES	AND	SA HYDROGEN OXYGEN /HOPE/ SPACECRAFT SA INFLATABLE SPACECRAFT SA INTERPLANETARY SPACECRAFT SA LUMAR SPACECRAFT
NUCLEAR PROPULSION AND AUXILIARY SPACE TRAVEL	POWER SOURCE N63-18928		SA MANNED SPACECRAFT SA MARS—1 SPACECRAFT
LINE OF SIGHT ERROR ANALYSIS FOR TRAJECTORIES USING MK. 3C VEHICL RECRUIT BOOSTER COMBINATIONS	ES WITH SERG		SA PLANETARY SPACECRAFT SA REUSABLE SPACECRAFT SA UNMANNED SPACECRAFT
EFFECT OF RADIATIVE HEAT TRANSFER REACTION ON HEAT TRANSFER RATE TO DUBLING HYPERSONIC FLOW CONDITION: R635046	A SPACE VE		SA VOSTOK I SPACECRAFT SA VOSTOK II SPACECRAFT SA VOSTOK III SPACECRAFT SA VOSTOK IV SPACECRAFT SA VOSTOK V SPACECRAFT
METEOROID HAZARD TO SPACE VEHICLE \$10-62-519	SMINGO JETO	MIV	SA VOSTOK VI SPACECRAFT CF AIRCRAFT CE LIMOU VEHICLE
ORBIT-OPTIMIZATION OF SPACE VEHIC MECHANICS AND FLIGHT REGULATION	N63-20229	σ 20-31	CF REENTRY VEHICLE CF SATELLITE CF SPACE CAPSULE CF SPACE VEHICLE
OPTIMIZATION OF SPACE VEHICLE THE PRESPECIFIED THRUST DIRECTIONS - AIAA PAPER 63-420	RUST PROGRAM		MIMIMUM WEIGHT DESIGN OF STRUCTURES OPERATING IN AN AEROSPACE ENVIRONMENT ASD-TDR-763 N63-10091 01-3
GROUND SUPPORT SYSTEM AND LAUNCH! SATURN SPACE VEHICLE	EAST NOTE AND	0.77%	REENTRY DYNAMICS - SPACECRAFT, ATMOSPHERE, THERMA PROTECTION, TRAMSPORT PROPERTIES N63-10230 01-0
ARS PAPER-1425-60 ON-BOARD DIGITAL COMPUTERS FOR SP	N63-21341	21-32	LIFE SUPPORT SYSTEMS EVALUATOR INSTRUMENTATION -
SYSTEMS RECOVERABLE SPACE PROBE	N63-21439	22-15	MH-AERO-2662-TR2 N63-10337 01-1 SYMPOSIUM ON BALLISTIC MISSILE & SPACE TECHNOLOGY
NHC-TM-62-22 FLEXIBLE LINEAR-SHAPED CHARGE SEP	N63-22203	23-04 TS FOR	1962 - VOL I, SPACE VEHICLES, HYPERSONICS, REENTRY, STRUCTURES, MATERIALS & RELIABILITY
SPACE VEHICLE STAGE SEPARATION SSO-TOR-63-183-/111/	N63-23370	24-06	PERFORMANCE AND ABORT CONSIDERATIONS AFFECTING SELECTION OF INJECTION CONDITIONS FOR EARTH-MOON
EFFECT OF PROPELLANT SLOSHING ON ACCELEROMETER CONTROLLED RIGID SP NASA-TN-D-1831			TRAJECTORIES M63-10374 01-2 PROCEDURE FOR CALCULATING RADIATION EXPOSURE ON SPACE MISSIONS N63-10375 01-2
METEOROID HAZARD TO MUCLEAR ROCKE MISSIONS LMSC-A303606		24-29	SAFETY OF HIGH-PRESSURE ÖXYGEN SYSTEMS FOR LIFE SUPPORT IN AEROSPACE VEHICLES
AT STREET COM			AMRL-TDR-62-102 N63-10451 01-1

SUPPORT IN AEROSPACE VEHICLES
AMRL-TDR-62-102 N63-10451

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SACECRAFT STERILIZATION HISA-TN-D-1357 N63-10793 02-16	SPACECRAFT THERMAL SIMULATION NASA-TN-D-1631 N63-14811 11-10
MATER FROM A MANNED LUNAR LANDING AND RETURN TO	STABILITY ANALYSIS OF SKID-ROCKET LANDINGS OF
REMOREVOUS IN A 50-MILE GREIT MASA-TN-D-1514 N63-10904 02-32	SPACECRAFT MASA-TH-D-1625
STPANDABLE STRUCTURES, SPACECRAFT, SOLAR ENERGY	SPACECRAFT ORBITAL RENDEZVOUS MANEUVER - MOTION
COLLECTORS, RECOVERY ARC-R-77 N63-10951 02-34	EQUATION FOR DOCKING - SPACE MAINTENANCE AMRL-TDR-62-124 N63-15320 12-29
SPACE BIOLOGY. SPACE ENVIRONMENT, ASTRONAUT	STABILIZATION AND CONTROL SYSTEM FOR MANNED
TAXINING JPSS-16677 N63-10982 02-16	LUNAR VEHICLE - ATTITUDE CONTROL N63-15533 12-32
NETEOROID HAZARD TO SPACECRAFT IN ORBIT NEAR THE	LAUNCH VEHICLES AND SPACECRAFT FOR EXPLORATION OF
EARTH MASA-TN-X-789 N63-11004 03-30	SPACE AND PLAMETS
STRUCTURAL SYNTHESIS OF SYMMETRIC MAFFLE PLATE	SPACE SCIENCE - ROCKET AND SPACECRAFT FLIGHT SIMULATION N63-15996 13-10
MASA-TN-0-1691 N63-11050 03-34	SPACECRAFT MATERIALS - MANUFACTURE OF BEARINGS,
ENVIRONMENTAL PROBLEMS OF SPACE FLIGHT STRUCTURES - PART II, METEOROID HAZARDS	ACCELEROMETERS AND ELECTRONIC EQUIPMENT N63-16003 13-17
NASA-TN-D-1493 N63-11986 05-30	SPACE SCIENCE - SPACECRAFT - JUNO LAUNCH
SPACECRAFT AND LAUNCH-VEHICLE PERFORMANCE, MISSIGN OPERATIONS, AEROMEDICAL ANALYSIS, PILOT PERFORMANCE, PILOTS FLIGHT REPORT	VEHICLES AND RADIATION MEASUREMENT N63-16010 13-32
NASA-SP-12 N63-11990 05-32	DEEP SPACE INSTRUMENTATION FACILITY CAPABILITIES,
SPACEGRAFT AND LAUNCH VEHICLE PERFORMANCE	1963 TO 1970, FOR SUPPORT OF APOLLO PROJECT - SPACECRAFT TRACKING AND COMMUNICATIONS
N63-11991 05-32	EPO-29, REV. 1
GUIDANCE OF SPACECRAFT APPROACHING EARTH AT SUPERCIRCULAR VELOCITIES ON DESIRED PERIGEE NASA-TH-D-1607 06-22	IMPEDANCE IN VIBRATION TESTING OF SPACECRAFT LAUNCH VEHICLES N63-16770 14-30
OPTIMAL CONTROL OF SELF-ADJOINT SYSTEMS - ANGULAR	REENTRY STABILITY AND TRAJECTORY ANALYSIS FOR
VELOCITY CONTROL OF TUMBLING SPACECRAFT NS-709 N63-12842 07-09	CONICAL VEHICLE CA-4291-0065 N63-16937 14-29
ANACCONET BOOMING TON BEOUTBENESS FOR LUMB	BIBLIOGRAPHY - THERMAL CONTROL OF SPACECRAFT SURFACES
LANDING MISSIONS IAS-PAPER-63-76 N63-12897 07-27	SB-62-30 N63-17089 15-06
AUTOMATING SPACEFLIGHT TRAJECTORY DESIGN -	GODDARD SPACE FLIGHT CENTER CONTRIBUTIONS TO COSPAR MEETING - SATELLITE OBSERVATIONS AND MEASUREMENTS
HISSION CONSTRAINTS IAS PAPER-63-85 N63-12901 07-29	NASA-TH-D-1669 11 182 494 484 484 884 183-17105 15-29
SPACECRAFT GUIDANCE AND CONTROL DURING REENTRY	STRUCTURAL ANALYSIS OF UPPER ATMOSPHERE FROM ROCKET AND SATELLITE MEASUREMENTS OF CHARGED
1AS-PAPER-63-86 N63-12902 07-22	PARTICLES M63-17106 15-12
PRESSURE DISTRIBUTION ON IMPULSIVELY ACCELERATED SUPERSONIC WEDGE AS INSIGHT TO FLOW FIELDS OF MISSILE AND SPACECRAFT FLIGHT	MEASUREMENT OF INTERPLANETARY OUST BY SATELLITES AND SPACE PROBES M63-17107 15-23
SH-42649 N63-13004 07-02	ACHIEVEMENT OF RELIABILITY IN SPACECRAFT N63-17291 15-06
CORIOLIS EFFECTS ON OPERATOR MOVEMENTS IN ROTATING SPACECRAFT N63-13017 07-16	AN - OF HUTSHIP PURMETED BY PECTS NGS-11010. BY-10
ROTATING SPACECRAFT N63-13017 07-16 SPACECRAFT POSITION IN EARTH-MOON SPACE FROM	RELIABILITY OF TRANSIT MAVIGATION SATELLITE SYSTEM N63-17292 A15-32
OPTICAL MEASUREMENTS MASA-TN-0-1604 N63-13099 07-22	AUTOMATIC DATA PROCESSING SYSTEM FOR SPACECRAPT CHECKOUT N63-17661 16-20
FRICTION AND WEAR IN SPACE ENVIRONMENT AND	POLYMERIC MATERIALS FOR SPACECRAFT APPLICATION
LUBRICATION FOR SPACECRAFT MECHANISMS N63-13457 08-17	JPL-SR-353-1 1 16-19 N63-18032 16-19
LUNAR SURFACE BALLISTICS, HAZARDS OF SPACECRAFT	COMPOSITE MATERIALS FOR SPACECRAFT AND SUPERSONIC AIRCRAFT - BIBLIOGRAPHY
LANDING OR LAUNCHING, PARTICLES - EXHAUST GASES MASA-TN-D-1526 M63-13515 08-29	58-63-49 N63-18213 17-17 NB
SELF-SEALING STRUCTURES FOR CONTROL OF METEOROLD	SOVIET SATELLITES AND SPACE SHIPS
HAZARD TO SPACE VEHICLE MSL-62-132-2 H63-13519 08-34	MOTION DURING SATELLITE EJECTION INTO ORBIT -
LAUNCH VEHICLE RELIABILITY IMPROVEMENT PROGRAM AUL-62-0049-1 M63-13925 09-17	SCORNEL POSTALIST STORES M63-10434 DE 17-31 DE CORREA-DONG SCORREA-DONG
AUTONATIC INTERPLANETARY STATION MARS I LAUNCHED	BIBLIOGRAPHY - SOVIET SATELLITES AND SPACE SHIPS SATELLITE OBSERVATIONS, REASUREMENTS AND MARCHARD
BY SOVIETS RAE-TRANS-1026 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	PHOTOGRAPHY - MANNED SPACEFLIGHT EXPERIMENTS N63-19455 17-32
MICROMETEORITE PENETRATION EXPERIMENT ON EXPLORER	SELF SEALING SPACECRAFT STRUCTURES IN METEOROID
VIII SATELLITE - 1959 IOTA NASA-TN-D-1722 N63-14428 10-32	ENVIRONMENT NASA-CR-50000 N63-18867 18-34
THE RESERVE AND ADDRESS OF THE PARTY OF THE	1234 13213-1-42 H63-18700 14-25

ADVANCED ANTENNA DESIGN TECHNIQUES - SYNCOM PROJECT GROUND-GASED TRACKING SYSTEMS AND SPACECRAFT COMMUNICATIONS SYSTEM	TURBOHACHINERY BEARING CONFIGURATIONS - TESTS FOR LONG TERM, UNATTENDED OPERATION WITH LOW VISCOSITY LUBRICANTS IN SPACE ENVIRONMENT
GER-10979 M63-19274 18-08	N63-15249 12-17
UNITED STATES SPACE PROGRAM - LAUNCH VEHICLES, SATELLITES AND SPACECRAFT N63-19368 18-01	MEASURED EFFECTS OF VARIOUS COMBINATIONS OF NUCLEAR RADIATION, VACUUM, AND CRYDTEMPERATURES ON COMPONENT PARTS OF NUCLEAR-POWERED SPACECRAFT
FORTRAN PROGRAM FOR CALCULATING SPACECRAFT TRAJECTORIES THROUGHOUT BURNOUT R-37 N63-19378 18-29	FZK-163 N63-16677 14-33 SPACECRAFT CONFIGURATION
BIOCHEMICAL STERILIZATION OF SPACECRAFT TO PREVENT CONTANTINATION OF MOON N63-19484 19-16	SPACE VEHICLE CONFIGURATION EFFECTS ON STRUCTURAL BENDING FREQUENCIES AND AERODYNAMIC STABILITY MASA-TH-X-50231 NO3-20193 20-31
TRAJECTORY REQUIREMENTS FOR TERMINAL LUNAR LANDING FROM ANALOG SIMULATION OF SPACECRAFT N63-19606 19-29	SPACECRAFT CONTROL ANGULAR MOTION DETECTION BY HUMAN PILOTS AND APPLICATION TO SPACE RENDEZVOUS CONTROL NASA-TN-0-1498 N63-10626 02-14
EXPRESSING STATIC AND DYNAMIC UNBALANCE FOR SPACECRAFT PAYLOADS NASA-TM-X-50175 N63-20247 20-33	SPACE PROGRAMS SUMMARY NO. 37-17 - VOL 1V, SPACE PROGRAMS - TELECOMMUNICATIONS - GUIDANCE AND CONTROL - PROPULSION
SPACECRAFT SENSORS FOR DETECTING RADIO AND RADAR SIGNALS - ANALYSIS OF REQUIREMENTS AIAA PAPER-63-348 N63-20478 20-08	CONTROL. GUIDANCE. AND NAVIGATION OF SPACECHAET
GUIDANCE POLICIES FOR MULTIPLE-IMPULSE CORRECTION	NASA-SP-17 N63-11507 03-22
OF SPACECRAFT TRAJECTORY ATAM PAPER-63-334 N63-20491 20-29	MATHEMATICAL ANALYSIS FOR ORIENTATION AND CONTROL OF ORBITING ASTRONOMICAL OBSERVATORY NASA-TN-D-1668 N63-12063 05-29
INFRARED HORIZON OF PLANET EARTH - DIFFERENCE BETWEEN SURFACE, ATMOSPHERIC, & OUTER SPACE SPECTRAL REGIONS - CHOOSING SPACECRAFT SENSORS NASA-TW-0-1850 N63-20603 20-12	SPACECRAFT GUIDANCE AND CONTROL DURING REENTRY IAS-PAPER-63-86 N63-12902 07-22
MASA-TN-D-1850 N63-20603 20-12 HANDBOOK OF THERMOPHYSICAL PROPERTIES OF SPACE- CRAFT MATERIALS - THERMAL RADIATION AND MATERIALS	MAGNETIC TORQUERS FOR SPACECRAFT ATTITUDE CONTROL ASD-TDR-63-74 09-22
STABILITY IN SPACECRAFT ENVIRONMENT LMSC-8-55-63-3 N63-20841 21-13	GROUND SUPPORT EQUIPMENT FOR LUNAR LANDING MODULE UTILIZED WITH APOLLO VEHICLE ER-12305 N63-14350 10-10
SPACECRAFT AND DYNAMIC LOADS IN SPACE ENVIRONMENTS N63-20876 21-18	STABILIZATION AND CONTROL SYSTEM FOR MANNED LUNAR VEHICLE - ATTITUDE CONTROL
NUCLEAR RADIATION AND CRYO-TEMPERATURE - COMBINED EFFECT ON NONBETALLIC SPACECRAFT MATERIALS	N63-15533 12-32
NASA-CR-31140 N63-21332 21-19	SPACECRAFT DESIGN MINIMUM MEIGHT DESIGN OF STRUCTURES OPERATING IN
COMPOUNDS AND POLYMERS CONTAINING SILICON-NITROGEN BONDS FOR SPACE VEHICLE USE - COATINGS, HYDRAULIC FLUIDS AND IMPREGNATING RESINS FOR GASKETS	AN AEROSPACE ENVIRONMENT ASD-TDR-763 N63-10091 01-34
NASA-CR-51374 N63-21735 22-07	AEROTHERHOELASTICITY SYMPOSIUM, 1961 ASD-TR-61-645 N63-11058 03-01
SINUSCIDAL SWEEP VIBRATION TEST FOR QUALIFICATION OF SPACECRAFT STRUCTURES - WAVEFORM DISTORTION AND EFFECT ON VIBRATION TESTING	AEROTHERMOELASTIC REQUIREMENTS FOR VEHICLES N63-11061 03-33
NASA-TN-D-1763 N63-21888 22-33	AEROTHERMOELASTIC PROBLEMS IN VEHICLE DESIGN -
NASA SPACEGRAFT DECONTAMINATION PROCEDURE N63-21989 22-29	FLUTTER, FUSELAGE, AND STATIC AEROELASTICITY N63-11062 03-34
MATERIALS-RESEARCH AREAS OF IMPORTANCE TO MISSILE AND SPACECRAFT STRUCTURE NASA-TN-0-2125 N63-23126 24-34	RADIO-ATTENUATION MEASUREMENT /RAM AL/ TEST, FOUR- STAGE SOLID-PROPELLANT ROCKET VEHICLE - PERFORMANCE AND DESIGN
THE PARTY OF THE PROPERTY OF THE PARTY OF TH	NASA-TN-D-1611 N63-13548 08-31
LATERAL RANGE & HYPERSONIC LIFT DRAG RATIO FOR EFFICIENT EARTH ORBIT FERRY SERVICE N63-23222 24-02	ATMOSPHERIC CONDITIONS AND INFLUENCE ON SPACECRAFT DESIGN, OPERATION - SPACE SYSTEM ENGINEERING FFM-56 N63-14334 10-29
PARAVULCOON RECOVERY AND LANDING SYSTEM - PARACHUTE AND HOT GAS BALLOON FOR SPACECRAFT LANDING ON MARS AND VENUS N63-23324 24-03	LUNAR LANDING STUDIES - FLIGHT OPERATIONAL
STABILITY OF WHITE TEMPERATURE-CONTROL COATING FOR	ER-12297 N63-14347 10-29
SPACEGRAFT UNDER ULTRAVIOLET IRRADIATION IN VACUUM NASA-CR-52134 N63-23501 24-13	AUTOMATIC INTERPLANETARY STATION MARS I LAUNCHED BY SOVIETS
RADIATION FORCES AS COMPONENT OF SPACECRAFT	RAE-TRANS-1026 N03-14356 10-27
ENVIRONMENT LMSC-A304055 N63-23691 24-23	METHOD OF EXPRESSING MASS UNBALANCE - FORCE-MOMENT METHOD APPLICATION TO SPACECRAFT DESIGN NASA-TN-D-1446 N63-15765 13-33
PACECRAFT COMPONENT PAINTS AND SOLAR REFLECTORS AS TEMPERATURE CONTROL	SPACE SCIENCE - SPACECRAFT DESIGN FOR MANNED
SURFACES FOR SPACECRAFT JPL-TR-32-340 N63-13441 OB-13	SPACE FLIGHT N63-16012 13-14
VALVE TECHNOLOGY FOR SPACECRAFT ROCKET ENGINES	SPACE MECHANISM DESIGNED FOR LIMITED PARALLEL MOTION JPL-TM-33-106 N63-16155 13-17

1-T

MANNED ORBITAL SPACE FLIGHT - OPERATIONS, SUPPORT, DESIGN, AND DEVELOPMENT OF CONCEPTS - SPACECRAFT DESIGN AND MISSION ANALYSIS N63-17401 15-32	TRAJECTORIES - ORBITAL NECHANICS NAS-14805 14-29
RANGER SPACECRAFT DESIGN N63-19537 19-32	SPACECRAFT GUIDANCE - ROCKET BODSTER VERTICAL FLIGHT N83-16806 14-29
SPACECRAFT DESIGN AND OPERATIONS AS LEARNED FROM MERCURY PROJECT	SPACECRAFT GUIDANCE - OBITAL RENDEZVOUS AND TRANSFER No.3-16807 14-29
SPACE ENVIRONMENT AND ATMOSPHERIC STRUCTURE	SPACECRAPT GUIDANCE - VEHICLE MOTION IN MOON AND EARTH GRAVITATIONAL FIELDS N63-16808 14-29
RELATIVE TO SPACECRAFT DESIGN N63-20877 21-29	SPACECRAFT GUIDANCE - ORTHOGONAL FUNCTIONS N63-16809 16-20
RETEOROID MAZARD EFFECT ON SPACECRAFT DESIGN ERR-AN-167 N63-23120 24-29	SPACECRAFT GUIDANCE - NUMERICAL INTEGRATION -
FUTURE SPACECRAFT DESIGN FOR MANNED FLIGHT N63-23241 24-30	SPACECRAFT GUIDANCE - LINEAR PROGRAMMING -
SPACECRAFT DESIGN HAVING FOUR SOLAR PANELS OF WHICH THO ADJACENT HINGES HAVE SKEW AXES IN FIXED COORDINATE SYSTEM M63-23820 24-34	UNMANNED SPACECRAFT GUIDANCE FROM EARTH BASED STATION - OPTIMAL CONTROL AND ORBIT CALCULATIONS ATAA 63-399 N63-20134 20-09
PACECRAFT ELECTRONIC EQUIPMENT STERILIZATION OF ELECTRONIC COMPONENTS OF SPACECRAFT N63-10373 01-29	OPTIMAL LIMEAR FEEDBACK GUIDANCE SCHEME FOR SPACE VEHICLES RM-3604-PR N63-20177 20-22
EFFECTS OF SPACE RADIATION ON ELECTRONIC COMPONENTS N63-10928 02-09	THEORY OF SPACE FLIGHT AND ADAPTIVE GUIDANCE NASA-TM-X-50252 N63-20206 20-29
SPACECRAFT MATERIALS - MANUFACTURE OF BEARINGS, ACCELEROMETERS AND ELECTRONIC EQUIPMENT N63-16003 13-17	GROUND RADAR TRACKING SUPPLEMENTATION OR BACK-UP OF ON-BOARD NAVIGATION AND GUIDANCE SYSTEMS OF SPACECRAFT IN LUMAR ORBIT
HISSILE AND SPACE VEHICLE ELECTRICAL SYSTEMS - SPACE SCIENCE N63-16005 13-06	NASA-CR-50944 NAS-21430 22-08 SPACECRAFT INSTRUMENTATION
RELIABILITY NANOBOOK FOR ELECTRONIC DESIGNERS -	SELF-ERECTING SPACE VEHICLE ANTENNAS N63-10083 01-08
R-368 H63-16154 13-17	LIFE SUPPORT SYSTEMS EVALUATOR INSTRUMENTATION - SPACECRAFT SIMULATION
RADIATION EFFECTS ON SPACECRAFT ELECTRONICS SACSTEMS, COMPONENTS AND MATERIALS - BIBLIOGRAPHY S8-62-46 N63-16526 14-09	MH-AERO-2662-TR2 N63-10337 01-16 MEDICO-BIOLOGICAL CONTROL IN COSMIC FLIGHT
RELIABILITY OF SPACECRAFT ELECTRONIC EQUIPMENT - ASSURING LARGE MEAN-TIME-BETWEEN-FAILURES N63-17288 15-17	JPRS-16205 M63-10363 01-16 STERILIZATION OF ELECTRONIC COMPONENTS OF SPACECRAFY N63-10373 01-29
ELECTRONIC APPARATUS RELIABILITY FOR CIVILIAN AND	IMERTIA SPHERE TO DAMP THE ANGULAR HOTIONS OF SPINNING SPACECRAFT. NASA-TR-R-137 N63-10736 02-30
MEIGHT REDUCTION IN SPACECRAFT ELECTRONIC EQUIPMENT N63-22183 23-09	SPACECRAFT MATERIALS RELIABILITY PROGRAM M63-10933 02-17
TWO 500/25 VA SOLID STATE INVERTERS FOR GUIDANCE AND CONTROL ELECTRONICS - SPACECRAFT ELECTRONIC	CONTROL SYSTEMS FOR VEHICLES WITH LARGE AEROTHERHOELASTIC EFFECTS N63-11070 03-30
EQUIPMENT SSD-TOR-63-183-/11/ H63-23792 24-25	DATA ACQUISITION FROM SPACECRAFT NASA-SP-16 N63-11506 03-20
PACECRAFT GUIDANCE GUIDANCE OF SPACECRAFT APPROACHING EARTH AT SUPERCIRCULAR VELOCITIES ON DESIRED PERIGEE NASA-TN-D-1607 N63-12592 06-22	RANGER SPACECRAFT LUMAR SEISHOGRAPH N63-12046 05-15
EMERGENCY NAVIGATION PROCEDURE WITH MIDCOURSE CORRECTIONS FOR SPACE VEHICLES IN RETURNING FROM	MEASURING ROCK AND SOIL STRENGTH PROPERTIES AT THE SURFACE OF THE MOON JPL-TR-32-374 H63-12922 07-29
THE MOON NASA-TN-D-1765 87333 03807 8A3 N63-14028 09-22	SPACECRAFT COMPUTERS FOR CONTROL, NAVIGATION, AND DATA PROCESSING 07-20
MULTIFUNCTION SPACE VEHICLE GUIDANCE SENSORS M63-14754 11-22	ENDLESS-LOOP MAGNETIC TAPE RECORDER FOR TIROS
SPACECRAFT GUIDANCE - VEHICLE TRAJECTORIES NASA-TN-X-50077 N63-16801 14-01	MASA-TH-D-1542 N63-13097 07-08
SPACECRAFT GUIDANCE - MULTISTAGE ROCKET TRAJECTORIES 14-29	PERSONNEL RESTRAINT STUDIES FOR ADVANCED MAMMED SPACE VEHICLES ANRL-TDR-62-120 M63-13143 07-16
SPACECRAFT GUIDANCE - BOUNDARY VALUE PROBLEM N63-16803 14-29	PORTABLE INTEGRATING SPHERE FOR MONITORING SOLAR REFLECTANCE OF SPACECRAFT COATING
SPACECRAFT GUIDANCE - LOW THRUST PROPULSION TRAJECTORIES 14-29	CHAITTHE SOLAR CASSENATORY, STAST OF STREET
SPACECRAFT GUIDANCE - LOW THRUST PROPULSION	NASA FACTS-8-62 NESTRUMENTATION NES-16700 14-29

MANNED DRBITAL SPACE LABORATORIE AIAA PAPER-63-135	S N63-19059	18-32
EFFECTS OF NATURAL SPACE RADIATI SYSTEMS LIFE - PHOTOGRAPHIC FILM D2-90037		20-28
SPACECRAFT MODEL RELIABILITY MODEL AND ANALYSIS F MERCURY 3-ORBIT MANNED AND UNMAN NASA-TN-0-1558	OR PROJECT NED MISSION N63-10536	01-32
LOW SUBSONIC STABILITY AND CONTR FREE FLYING MODEL OF A HALF CONE NASA-TM-X-665	REENTRY VEHI N63-14682	CLE
SKID LANDING OF SPACECRAFT MODEL:		12-30
SPACECRAFT ORBITAL RENDEZYOUS SPACECRAFT ORBITAL RENDEZYOUS HAI EQUATION FOR DOCKING - SPACE HAI! AMRL-TDR-62-124	NEUVER - MOTI NTENANCE N63-15320	ION 12-29
SPACECRAFT POWER SUPPLY SOLAR POWER SYSTEM FOR THE ARIEL ARS PAPER-2498-62	SATELLITE // N63-10252	W-1/ 01-06
SOLAR-CELL POWER SYSTEMS TESTING ARS PAPER-2504-62	- BALLOON FI N63-10255	IGHTS 01-06
NICKEL-CADMIUM BATTERIES FOR THE ASTRONOMICAL OBSERVATORY /OAD/	ZAYO SIRITA (BAYASIN)	10
ARS PAPER-2508-62 NUCLEAR ELECTRIC POWER SYSTEMS	N63-10257	01-06
ARS PAPER-2522-62 MATERIALS PROBLEMS WITH THE DESIGN SPACE POWERPLANTS	N63-10260 SN OF RADIATO	01-06 085
FOR SPACE POWERPLANTS ARS PAPER-2535-62	N63-10262	01-06
EFFECT OF SPACE ENVIRONMENT ON PI ARS PAPER-2536-62	NG3-10263	ELLS 01-06
METEOROID PROTECTION FOR SPACE RARS PAPER-2543-62	N63-10265	01-06
ANALYSIS OF A MEGAWATT LEVEL DIRT RADIATOR FOR SPACE POWER SYSTEM ARS PAPER-2545-62	ECT CONDENSER	01-06
ELECTRICALLY-REGENERATIVE HYDROGE	N-DYYGEN FUE	1
CELL ARS PAPER-2563-62	N63-10270	01-06
SOLAR CELLS WITH THIN FILM CADMIT	M SULFIDE N63-10272	01-06
POWER FOR SPACECRAFT NASA-SP-21	N63-11511	03-06
SPACE POWER SYSTEMS - EMISSIVITY MATERIALS FOR SMAP-8 POWERPLANT PWA-2088	OF CAMDIDATE	04-19
PERFORMANCE OF A SEALED-SILVER CA	NETTAB HUING	
NASA-TH-0-1543 SPACE RADIATOR STUDY - CONDENSER-	RADIATORS FO	04-06 R
RANKINE CYCLE SPACECRAFT POWERPLA ER-4544	N63-12200	05-06
COMPACT NUCLEAR REACTOR DESCRIPTS OPERATIONAL AVAILABILITY	ONS - PLANNE N63-14144	0 09-06
EVALUATION OF BATTERIES FOR SATEL		T10N, 09-06
CELL DEVELOPMENT AND TESTS OF HER ZINC-SILVER OXIDE SECONDARY BATTE APPLICATION	RY FOR AEROS	
ZINC-SILVER OXIDE BATTERIES TESTE		ACE 09-06
FLIGHT VEHICLE POWER & MATERIALS	- CHEMICAL,	SOLAR

SELECTION OF INSTRUMENTATION AND PERSONNEL FOR

SUBJECT THOEX		
& NUCLEAR EMERGY - ELECTRIC, ELE POLYMERIC & COMPOSITE MATERIALS TOR-930/2701-01/TN-1/11PT 1-4S	CTRONIC, MACH	ETIC.
THE STREET STREET, ST. PERSONNELS	N63-14539	10-01
INDUCTION GENERATOR - KINETIC EN	ERGY STORAGE	
SYSTEM FOR POWER SUPPLY	N63-14639	10-04
SNAP AEROSPACE SAFETY PROGRAM NAA-SR-8097	N63-14664	10-84
NUCLEAR THERMIONIC SPACECRAFT PO		11-06
MAGNET POWER SUPPLY AND CONTROL	SYSTEM FOR MA	55
SPECTROMETRY Y-1414	N63-14792	11-17
MATURE OF LONG SPARK - POWER SUP CURRENT DISTRIBUTION, FREQUENCY, FTD-TT-61-149/182	PLY, VOLTAGE AND LIGHTNIN N63-14905	AND 16 11-09
ELECTRODE FORMATION OF LONG SPAR	K - DIRECT CU N63-14912	IRRENT 11-09
HYDROGEN-OXYGEN FUEL CELL POWER PROJECT	SUPPLY FOR HO N63-15187	PE 11-06
SPACECRAFT POWER SUPPLY AND PROPINTEGRATION	N63-15681	12-27
MODIFICATION OF STIRLING CYCLE E TYPE SOLAR POWER SYSTEM	NGINE FOR FLI N63-15716	GHT- 12-17
ANALYTICAL STUDY OF TURBINE-GEON CHARACTERISTICS FOR ALKALI METAL SPACE POWER SYSTEM	TURBOELECTRI	
NASA-TN-D-1710	N63-15770	13-06
SOLAR CELL POWER SUPPLY IN SPACE HEASUREMENTS & POWER EFFICIENCY ASD-TDR-62-882	- 001901	13-15
SPECTRALLY SELECTIVE SURFACES US OF SOLAR ENERGY FOR HEAT ENGINES	ED AS COLLECT IN SPACE N63-17148	ORS 15-06
SOLAR POWER SUPPLY SYSTEM FOR OR ASTROMOMICAL, OBSERVATORY AIAA PAPER-63-217	BITING N63-17805	16-06
LUBRICATION OF TURBOPOWER SYSTEM	S BEING DEVEL	OPED
FOR SPACECRAFT NUCLEAR ELECTRIC AUXILIARY SYSTEMS	PROPULSION AN N63-17829	16-17
ALKALI METAL LUBRICANTS FOR JOUR SPACE POWER SYSTEM	NAL BEARINGS N63-17851	IN 16-17
LIQUID METAL FLUIDS AS HYDRODYNAL LUBRICANTS IN SPACECRAFT POWER CO		TEMS 16-17
15-KW DYNAMIC POWER SYSTEM FOR SEASD-TOR-62-1002	PACECRAFT USE N63-17932	16-06
DEFLECTOR POWER SUPPLY FOR SECTO	R-FOCUSED	
CYCLOTRON UCRL-10655	N63-18300	17-09
NIOBUM BASE ALLOY AS ALKALI META MATERIAL FOR NUCLEAR TURBOELECTR	CONTAINMENT	R
SYSTEMS NASA-CR-50339	N63-18397	17-18
RADIO FREQUENCY INTERFERENCE AND TESTING OF A MINIATURE SOLIO STA HASA-CR-50392	TE POWER SUPP	
EUROPEAN I - SPACE SOUNDING VEHIC TELEMETRY, POWER SYSTEMS AND NET PROPERTIES	CLE - PAYLOAD WORKS & THERM M63-18923	AL 10-04
POWER SUPPLY FOR MARINER SPACECR	AFT-VENUS PRO N63-19950	8E 19-06

SPACE RADIATION EFFECTS ON SOLAR CELL POWER SYSTEMS IN SPACECRAFT NASA-SP-3003 N63-20315

N63-20315 20-06

SP

c, 01

06

06

17

09 NT 09

27 17

16

5

.

6

OPTIMIZATION OF SOLAR CELL POWER SUPPLY FOR INTERPLANETARY SPACECRAFT NASA-TN-D-1846 200 200 200 200 200 200 200 200 200 20	NUCLEAR ELECTRIC, SOLID CORE AND GASEOUS CORE NUCLEAR ROCKET SPACE PROPULSION B-110053-3 N63-19040 18-27
SOLAR CELL GENERATORS FOR SATELLITE POWER SUPPLY - DESIGN THEORY NASA-TN-D-1904 N63-20606 20-06	SPACECRAFT COLLOIDAL GENERATOR FOR ELECTROSTATIC PROPULSION 20-27
MASA-TN-D-1904 N63-20008 20-06 MICROWAYE OSCILLATOR FOR SPACE VEHICLE POWER	SPACECRAFT SYSTEMS DEVELOPMENT AND PERFORMANCE - MERCURY PROJECT N63-21954 22-06
SOURCE W-J-61-336AR24 N63-20664 20-08	SPACECRAFT ELECTRIC GENERATING AND PROPULSION SYSTEM INTEGRATION
SPACECRAFT PROGRAMMER TO CONTROL POMER USAGE AND BATTERY VOLTAGE NASA-TH-X-50427 AMAGE N63-21251 21-06	ASD-TOR-63-428, PT. II N63-22445 23-27 SPACECRAFT ELECTRIC GENERATING AND PROPULSION
SPACECRAFT POWER SUPPLIES AND VOLTAGE REGULATORS NASA-CR-51005 N63-21252 21-06	SYSTEM INTEGRATION ASO-TOR-63-428, PT. I N63-22446 23-27
POWER REQUIREMENTS FOR NUCLEAR-ELECTRIC SPACECRAFT MISSIONS	SOLAR ELECTRIC PROPELLED SPACECRAFT CAPABILITIES - ELECTROSTATIC AND ELECTROTHERMAL ENGINES MASA-CR-51567 N63-22586 23-27
NASA-CR-51018 N63-21253 21-27 SPACECRAFT ELECTRIC GENERATING AND PROPULSION SYSTEM INTEGRATION	TEFLON EXPULSION BLADDERS FOR SPACECRAFT PROPULSION SYSTEMS SSO-TDR-63-183-/IV/ N63-23364 24-27
ASD-TDR-63-428, PT. II M63-22445 23-27 SPACECRAFT ELECTRIC GENERATING AND PROPULSION SYSTEM INTEGRATION	HONMETALLIC POSITIVE EXPULSION BLADDER FOR SPACE VEHICLE PROPULSION SYSTEMS SSD-TOR-63-278 N63-23557 24-27
ASD-TOR-63-628, PT. I N63-22446 23-27 SOLAR CELLS AS SPACECRAFT AUXILIARY POWER SOURCES \$10-62-708 N63-22771 23-06	SPACECRAFT RECOVERY RECOVERABLE SPACE LAUNCHING NUCLEAR SYSTEMS N63-10376 01-27
SPACECRAFT PROPULSION NUCLEAR-ELECTRIC SPACECRAFT FOR UNMANNED SPACE	EXPANDABLE STRUCTURES, SPACECRAFT, SOLAR EMERGY COLLECTORS, RECOVERY ARC-R-77 NA3-10951 02-34
NUCLEAR PROPULSION FOR ORBIT-BASED SPACECRAFT N63-10383 01-27	SUMMARY OF REPORTS ON LUNAR EXPLORATION ASTRODYNAMICS, AND SPACE VEHICLE RECOVERY N63-12149 05-32
SPACECRAFT PROPULSION - LAUNCH AND REENTRY N63-11140 03-30	SIGNATELLITE RECOVERY FROM CIRCULAR ORBITS CH-1026 N63-12220 05-29
ION PROPULSION - THRUSTOR, ION SOURCES, PROPELLANT CONTROL, POMER CONDITIONING AND PERFORMANCE TESTS	SEA DRAGON VEHICLE IN ADCKET SEA LAUNCH AND NA3-13741 08-30
ARS PAPER-2650-62 N63-11264 03-27 ELECTRIC PROPULSION POWERPLANTS FOR SPACECRAFT ARS PAPER-2652-62 N63-11265 03-27	CABLE RIGGING AND AERODYNAMIC CHARACTERISTICS OF- PARAMING-SPACECRAFT COMBINATION NASA-TN-D-1937 N63-18667 17-03
PAYLOAD CAPABILITIES OF ELECTRIC PROPULSION SYSTEMS FOR SPACECRAFT ARS PAPER-2654-62 N63-11266 03-27	FLEXIBLE WINGS RED - STABILITY & CONTROL OF PARA- GLIDERS AS DECELERATORS FOR SPACECRAFT RECOVERY N63-23319 24-03
BEAM MEUTRALIZATION TESTS OF ELECTRON BOMBARDMENT ENGINE MODEL IN SIMULATED SPACE ENVIRONMENT ARS PAPER-2663-62 N63-11267 03-27	SPACECRAFT REENTRY SPACECRAFT PROPULSION - LAUNCH AND REENTRY N83-11140 G3-30
POWER FOR SPACECRAFT NASA-SP-21 N63-11511 03-06	EFFECT OF MA-7 SPACECRAFT ACCELERATIONS AND REENTRY DECELERATIONS ON THE LIQUID-VAPOR INTERPACE IN A BAFFLED TANK
ELECTRIC PROPULSION FOR SPACECRAFT NASA-SP-22 N63-11512 03-27	NASA-TN-D-1577 N63-11618 04-26 SPACECRAFT REENTRY FLIGHT TESTS FOR DETERMINING
VALVE TECHNOLOGY FOR SPACECRAFT ROCKET ENGINES N63-15032 11-17	PERFORMANCE OF HEAT SHIELDS MADE OF CHARRING ABLATING MATERIAL H63-18739 17-13
SPACECRAFT POWER SUPPLY AND PROPULSION SYSTEM INTEGRATION N63-15601 12-27	SPACECRAFT SHIELDING ACTIVE RADIATION SHIELDING OF SPACECRAFT AND DISCUSSIONS OF ELECTROSTATIC AND MAGNETIC FIELD
ARC JET PROPULSION SYSTEM IN PERFORMANCE OF SATELLITE DISTRIBUTION, MAINTENANCE, AND REPAIR	M63-13354 08-23
POSITIVE DISPLACEMENT INJECTOR FOR ATTITUDE	OPTICAL AND THERMAL METHODS OF MEASURING SOLAR ABSORPTANCE AND THERMAL EMITTANCE - THERMAL VACUUM TECHNIQUE TESTED FOR SPACECRAFT COATINGS
CONTROL OF SPACECRAFT PROPULSION CTR-00-270 N63-16676 14-27	PROTECTION AGAINST RADIATION HAZARDS IN SPACE -
THRUST AND IMPULSE REQUIREMENTS FOR SPACECRAFT ATTITUDE CONTROL FOR INTERPLANETARY TRANSFER MISSIONS	POUK II. DOSE MEASUREMENT AND SHIELD DESIGN FOR PRIMARY AND SECONDARY EMISSION MO3-15138 11-28
AIAA PAPER-63-237 N63-17920 16-30	SECONDARY-ENISSION DOSE CONTRIBUTIONS INDUCED BY
PLASMA ACCELERATORS FOR SPACECRAFT PROPULSION — INTERACTION AND LOSS MECHANISMS TDR-169/3713-01/TR-1 N63-18247 17-24	PI- SOLAR PROTON RADIATION - SPACECRAFT SHEELDING N63-15142 11-16 WITZZIW MANUAL DEVALUATE AND SOMMEROWAY 1280

CREW PERPORMANCE ON SIMULAYED LUNGS WISSERN

PLASMA ACCELERATORS FOR SPACECRAFT PROPULSION INTERACTION AND LOSS MECHANISMS
TOR-169/3713-01/TR-1 N63-18247 17-24

The State of State of

11 NO 81 NO

MONTE CARLO METHOD FOR NUCLEON TRANSPORT THROUGH SPACECRAFT SHIELDING N63-15145 11-28	IAS PAPER-63-18 N63-12885 07-14
SPACE PROTON DOSES AT POINTS IN HUMAN BODY - SPACECRAFT SHIELDING No3-15145 11-16	FLIGHT AND STABILITY STUDY OF CREW EMERGENCY ESCAPE SYSTEM CONFIGURATION ASRMOD-TM-62-32 N63-14960 11-02
SPACECRAFT SHIELDING DESIGN BY MONTE CARLD AND IONIZATION CALCULATIONS No.3-15147 31-32	FLIGHT SIMULATION IN CREW TRAINING - MANNED SPACE
EFFECT OF NUCLEON-MESON CASCADE FROM PROTON BEAM ON ALUMINUM SPACECRAFT SHIELDING	GREW ACCOMMODATIONS FOR AEROSPACE MISSIONS NRL MEMO. V-6 N63-21379 22-16
RADIATION DOSE FROM PRIMARY COSMIC RAYS COMPARED TO DOSE FROM GAMMA RAYS PRODUCED BY PROTOM-PROTON REACTIONS IN SOLAR FLARE - SPACECRAFT SHIELD NO3-15150 11-28	SPACEMARN PROGRAM SPACEMARN AND MOONMATCH PROGRAMS - TRANSIT AND RELAY PROJECTS - BRAZILIAN PARTICIPATION N63-11023 03-12
ESTIMATION OF SPACE RADIATION EXPOSURE DURING LUNAR MISSION - SPACEGRAPT SHIELDING N63-15152 11-92	SPACING CF SEPARATION POLYNOMIALS ENCOUNTERED IN STUDY OF DISTRIBUTION FUNCTION OF SPACINGS OF EIGENVALUES OF RANDON
RADIATION DOSE FROM ELECTRONS AND BREMSSTRAHLUNG IN VAN ALLEN BELT — SPACECRAFT SHIELDING	MATRIX BNL-757/T-280/ N63-13552 08-20
DESIGN OF SPACECRAFT SHIELDING OF MINIMUM WEIGHT -	OPTIMUM SPACING FOR PARAMETER ESTIMATION OF GAMMA RADIATION DISTRIBUTION AROD-2776-10 N63-14826 11-3
PROTONS AND SECONDARY NEUTRONS N63-15154 11-34	SPADATS S SPACE DETECTION AND TRACKING SYSTEM /SPADATS/
SPACECRAFT SHIELDING BY MAGNETIC FIELDS N63-15155 11-32	SPAIN METEOROLOGICAL AND MAGNETIC DESERVATIONS IN SPAIN,
SPACECRAFT SHIELDING - CALCULATION METHODS FOR ACTIVE AND PASSIVE SHIELDS N63-15156 11-32	1957-1958 N63-15428 12-2) SPALLATION PRODUCT
SHIELDING METHODS FOR HIGH-ENERGY ACCELERATORS APPLIED TO SPACECRAFT SHIELDING N63-15157 11-32	COSMIC RODIATION INTENSITY IN IRON METEORITES - SPALLATION PRODUCT BY PROTON IRRADIATION OF IRON NASA-CR-50194 N63-16884 14-29
RADIATION HAZARDS OF PI AND MU MESONS - BIOLOGICAL EFFECTS AND SPACECRAFT SHIELDING N63-15159 11-16	SPALLING OF NUCLEAR REACTION LOW-PRESSURE SPALL THRESHOLDS IN COPPER
SHIELD GEOMETRY INFLUENCE ON AIR DOSE AND TISSUE DOSE FROM PROTONS IN SPACE VEHICLE NASA-CR-50780 N63-19990 19-28	SC-4747/RR/ N63-12212 05-10 STRESS MAVE PROPAGATION AND SPALLATION IN UNIAXIM STRAIN, ALUMINUM ALLOYS AND COPPER ALLOYS
ACTIVE METEOROID SNIELDING FOR SPACE VEHICLES ASD-TOR-63-537 NS3-21437 22-29	ASD-TDR-62-399
SPACECRAFT TRACKING - DEEP SPACE INSTRUMENTATION FACILITY N63-10240 01-10	RAPID ESTIMATION METHOD FOR SPANWISE LOAD DISTRIBUTION OVER UNTWISTED WINGS IN SUBCRITICAL AIR FLOW DUE TO INCIDENCE CHANGE TO MEMO-0208 N63-13707 08-01
AN ACQUIRABLE CODE FOR RANGE MEASUREMENT OF SPACECRAFT N63-10476 01-20	THERMAL STRESSES IN RECTANGULAR PLATES CAUSED BY SPANNISE TEMPERATURE GRADIENT
TRACKING AND DATA ACQUISITION FROM SPACECRAFT USING MINITRACK NETWORK N63-11144 03-09	ARL-63-4 N63-14716 10-3
DATA ACQUISITION FROM SPACECRAFT NASA-SP-16 03-09 03-20	CF DISCHARGE CF ELECTRIC ARC CF ELECTRIC DISCHARGE
GROUND SUPPORT OF MASA SPACE PROGRAMS - TRACKING AND COMMAND TECHNIQUES - MINITACK, DEEP SPACE STATIOMS, MERCURY METWORK, DATA PROCESSING CENTERS	CF IGNITION MEASUREMENTS OF PRESSURE AND FLOW SPEED IN A SPARK-HEATED HYPERSONIC WIND TUNNEL AEDC-TDR-62-218 N63-10132 01-1
06-08 DEEP SPACE INSTRUMENTATION FACILITY CAPABILITIES,	DEVELOPMENT OF A NEGATIVE SPARK AND ITS COMPARISO TO LIGHTNING
1963 TO 1970, FOR SUPPORT OF APOLLO PROJECT - SPACECRAFT TRACKING AND COMMUNICATIONS EPD-29, REV. 1 14-10	JPRS-16722 N63-11105 03-2 ENERGY DISTRIBUTION IN AN UNDERWATER SPARK
DATA ACQUISITION FROM SPACECRAFT TRACKING AND FROM	DISCHARGE - PRESSURE FORMING N63-11673 04-1
DEEP SPACE SPACECRAFT TRACKING AND DATA ACQUISITION - BAKER- NUMBER AND DATA ACQUISITION - BAKER- NUMBER AND BACE NETWORK AND MANNED SPACE NETWORK MOS-20080 20-08	POLARIZATION OF MU-MESONS, WITH MOLLER SCATTERING IN MAGNETIZED IRON PLATES OF SPARK CHAMBER LNF-62-61 N63-12566 06-2
NASA PROGRAM ON TRACKING AND DATA ACQUISITION FOR	ELECTRODE EROSION IN SPARK DISCHARGES N63-13469 08-2
SPACECREM CREW PERFORMANCE OURING SIMULATED LUNAR MISSION	INTERACTION OF HIGH ENERGY PARTICLES IN BUBBLE CHAMBER STUDIED BY SPARK CHAMBER LABELING OF TRACKS
ER-12693 N63-10782 02-14	BNL-746/T-272/

CREW PERFORMANCE ON SINULATED LUNAR MISSION BEVATAON OPERATION & DEVELOPMENT - HYDROGEN BUBBLE

-14

-63 te

-14

-14

-12

-28

ü

20

ži

23

18

AL.

33

93

33

13

13

7

SPATIAL FILTERING

THE SPATIAL DISTRIBUTION OF THE VISIBILITY OF

ATMOSPHERIC RADIATION - PROBABILITY DISTRIBUTION OF BACKGROUND RADIATION FROM SPATIAL FILTER

INTERFERENCES IN THE MICHELSON INTE

CHAMBER & SPARK CHAMBER STUDY OF NUCLEAR REACTIONS DETECTOR DATA MA PRIENTE NO AN MAS-18483 M 17-08 UCRL-10347 SIGNAL DETECTION BY COMPLEX SPATIAL FILTERING N63-19114 18-23 TIME LAG OF SPARK FORMATION IN AIR AND IN VACUUM EFFECTS OF FIELD, PRESSURE AND ELECTRODE
SEPARATION
N63-13769 08-23 IN PREQUENCY SI SPATIAL ORIENTATION PILOT PERFORMANCE AND SPATIAL DISORIENTATION, PILOT PERFORMANCE AND N63-23658 24-14 IGNITION GEOMETRY INFLUENCE ON INITIAL FLAME ACCELERATION IN SPARK-IGNITED, STOICHIOMETRIC HYDROGEN-OXYGEN MIXTURES N63-14324 TIAL PERCEPTION
NOTION SICKNESS AND SPATIAL PERCEPTION
NOTION SICKNESS AND SPATIAL PERCEPTION
NAS-19838 19-16 NATURE OF LONG SPARK - POWER SUPPLY, VOLTAGE AND CURRENT DISTRIBUTION, FREQUENCY, AND LIGHTNING FTO-TT-61-149/162 N63-14905 11-09 SPECIES DIFFUSION

EFFECTS OF ANDIENT DISSOCIATION AND SPECIES

DIFFUSION FOR NONEQUILIBRIUM SHOCK LAYERS

IAS PAPER 63-70

M63-12652

06 EQUIPMENT AND METHODS OF INVESTIGATION - PULSE-VOLTAGE GENERATOR AND PULSE DISCHARGES N63-14906 11-09 SPECIFIC HEAT

CF FORMATION HEAT

CALORIMETER FOR THE SPECIFIC HEAT OF SOLID 325

PROPELLAMIS

PROPELLAMIS

NATIONAL 02 PULSE TYPE LONG-SPARK CORONA - FIRST STAGE OF LEADER STAGE OF LONG SPARK - ELECTRODE GAP AND SPECIFIC HEAT OF ALUMINUM MEAR ITS SUPERCONDUCTIVE TRANSITION POINT N63-11309 03-18 MAIN STAGE OF LONG SPARK - WAVEFORM AND CURRENT INFLUENCE OF ELECTRON INTERACTIONS ON SPECIFIC HEAT AND PARAMAGNETIC SPIN SUSCEPTIBILITY OF ALKALI METALS N63-15907 13-25 FINAL STAGE OF LONG SPARK - CURRENT DISTRIBUTION N63-14910 11-SPECIFIC HEAT AT CONSTANT VOLUME OF PARA-HYDROGEN AT TEMPERATURES FROM 15 TO 90-DEG K AND PRESSURES TO 340 ATM LONG SPARK VOLT-SECOND CHARACTERISTICS N63-14911 ELECTRODE FORMATION OF LONG SPARK - DIRECT CURRENT POWER SUPPLY AND LIGHTNING N63-14912 11-09 DIVARENT HE WOLLDS ATTENDED SPECIFIC HEAT OF SATURATED LIQUID PARA-HYDROGEN FROM 15 TO 32-DEG K AS NEASURED BY A CALORIRETER CRYOSTAY LONG SPARK IN COMMERCIAL-FREQUENCY ALTERNATING CURRENT N63-14913 1 DENTIFICATION ON A COMEN NBS-R-269 N63-16687 14-23 TYPES OF SPARK COUNTERS APPLICABLE TO NEUTRON SPECTROMETRY NYO-10261 M63-16378 14-15 LOW TEMPERATURE SPECIFIC HEATS OF YTTRIUM, ERBTUM, YTTERBIUM AND NEODYNIUM GALLIUM GARNETS FILM ANALYZER - SCANNING DEVICE FOR PHOTOGRAPHIC PROBLEM SOLVING, OSCILLOSCOPE TRACES, SPARK CHAMBER PICTURES MAGNETIC SUSCEPTIBILITY, SPECIFIC HEAT, THERMO-CONDUCTIVITY & MAGNETIC MOMENTS OF RARE EARTH METAL COMPOUNDS N63-19421 19-23 CERN-63-10 15-15 EFFECT OF ANTIKNOCK COMPOUNDS ON COMBUSTION PROCESSES AND FLAME PROPAGATION IN SPARK IGNITION INTERNAL COMBUSTION ENGINE N63-18598 17-2 TANTALUM SPECIFIC HEAT-EMISSIVITY RATIO AT HIGH TEMPERATURES ASD-TDR-63-371 N63-20118 20-25 5059 KRS THR # 新商业等 图 COMBUSTION PROCESSES AND FLAME PROPAGATION IN PATTERN & PROPERTIES OF FLOW AROUND VEHICLE BASED ON IDEAL GAS BEHAVIOR UNDER VARIABLE SPECIFIC HEATS & REDUCED PRESSURES R-8 N63-20501 SPARK IGNITED INTERNAL COMBUSTION ENGINE -IONIZATION GAP STUDY N63-18599 ACCURACY OF MEASURING TRACK IN SPARK CHAMBER LNF-63/33 HOLECULAR STRUCTURE & SPECIFIC HEAT OF CRYSTALS N63-21782 22-23 SPARK VELOCITY MEASUREMENTS IN HYPERSONIC WIND LATTICE VIBRATION DISTRIBUTION AND SPECIFIC REAT OF BI-METALLIC REGULAR LATTICE RSIC-81 N63-23509 24-QUANTATIVE SPECTROGRAPHIC DETERMINATION OF SPECIFIC IMPULSE
PROPELLANTS FOR LUNAR LAMDING - HIGH SPECIFIC AND DENSITY IMPULSE, IGNITION, AND STORAGE NASA-IN-0-1723 ELEMENTS IN SOLUTION USING ATOMIZER & SPARK RSIC-78 24-18 M63-12640 06-27 CF IGNITION SYSTEM THRUST AND IMPULSE REQUIREMENTS FOR SPACECRAFT
ATTITUDE CONTROL FOR INTERPLANETARY TRANSFER
HISSIONS NISSEON-LINE ONTENSITIES IN S SPATIAL DISTRIBUTION
MARINER II VENUS PROBE - MAGNETOSPHERE - SPATIAL
DISTRIBUTION AND INTENSITY OF CHARGED PARTICLES IN AIAA PAPER-63-237 N63-14943 11-29 SOLID PROPELLANTS - BURNING RATE, IMPETUS, AND PHYSICS OF FAST REACTOR - ENERGY SPECTRUM AND SPATIAL DISTRIBUTION OF NEUTRONS TTOOS-CONUR PLASTICE, VAPUR PARENT NWL-1872 SPECIFIC SUMPACE
SPECIFIC AREA OF POWDERS USED IN HARD ALLOYS,
TESTING HETHOD, HITROGEN ADSORPTION
1032-14167
1032-14167 SPATIAL FILTERING

N63-10445 01-15

SPECTRAL AMALYSIS
SPECTRAL AMALYSIS OF LIME GREADTH OF SPECTRAL LINE
OF HYDROGEN FLUORIDE
AFCRL-63-262
15-23

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SPIN MAYE SPECTRA OF YTTRIUM- AND GADOLINIUM-IRON GARNET	NEODYNIUM GLASS LASER - PUMPING EFFICIENCY, SPECTRAL EMITTANCE AROD-3209-2 N63-18148 16-23
TWO MEW SPECTRAL ANALYZER SYSTEMS FOR MEASURING VIBRATION DATA IN FREQUENCY DOMAIN M63-1609513-15	SPECTRAL EMITTANCE OF ELECTRODE MATERIAL FOR THERMIONIC CONVENTER N63-18298 17-25
ABSORPTION SPECTRA OF VARIOUS METALLIC HALIDES AND OXIDES, ELEMENTAL AND INERT GASES - BIBLIOGRAPHY UCRL-7238 No3-16144 13-07	SPECTRAL EMITTANCE OF CARBON DIOXIDE AT HIGH TEMPERATURE N63-18510 17-67
SPECTRAL ANALYSIS OF METEORS WITH LOW DISPERSION	KINETICS AND SPECTRAL EMITTANCE OF CARBON MONOXIDE FLAME BANDS 17-26
N63-16644 14-05 ULTRAVIOLET-ABSORBING COMPOUNDS REPORTED PRESENT IN MURRAY METEORITE	HIGH TEMPERATURE SPECTRAL EMISSIVITY OF YTTRIUM, SAMARIUM, GADOLINIUM, ERBIUM AND LUTETIUM OXIDES IS-578 N63-19155 18-25
MASA-CR-50299 N63-17157 PLANETARY AERONOMY - SOLAR FLUX INCIDENT AT TOP OF ATMOSPHERES OF EARTH AND NEIGHBORING PLANETS FOR SPECTRAL REGION 50 TO 3000-A	IMFRARED EMISSION FROM HYPERSONIC AIR FLOWS - REENTRY FLOW FIELD ANALYSIS AND PREDICTION OF SPECTRAL RADIATION AND ELECTRON DENSITIES GAL-QM-1026-A-11 M63-19623 19-11
GCA-TR-62-14-N N63-17312 15-28 SPECTRAL ANALYSIS OF COMETARY, SOLAR, AND UPPER	FINE STRUCTURE OF SPECTRAL EMITTANCE OF JUPITER IN DECAMETRIC REGION - NOISE STORMS
ATMOSPHERIC PROCESSES AFCRL-63-648 N63-17540 16-05	N63-21064 21-29
DIURNAL AND ANNUAL VARIATION OF SPECTRAL INTENSITY OF ULTRAVIOLET SKY AND GLOBAL RADIATION	RELATION OF SPECTRAL EMITTANCE TO OTHER OPTICAL PROPERTIES N63-23070 24-23
AFCRL-63-654 N63-17622 16-12 POWER SPECTRAL DENSITY TECHNIQUE APPLICABLE FOR	SPECTRAL ESTIMATION BOUNDS FOR ITERATES, INVERSES AND SPECTRAL VARIATION OF NON-NORMAL MATRICES
STRUCTURAL DESIGN CRITERIA ASRMOS-TM-62-4 N63-17670 16-34	N63-16830 14-20
INTENSITY DISTRIBUTION IN ULTRAVIOLET SOLAR SPECTRUM N63-19698 19-05	SPECTRAL FUNCTION SPECTRAL FUNCTIONS OF SYMMETRIC OPERATOR MRC-397 N63-16591 14-20
INFRARED HORIZON OF PLANET EARTH - DIFFERENCE BETWEEN SURFACE, ATMOSPHERIC, & OUTER SPACE SPECTRAL REGIONS - CHOOSING SPACECRAFT SENSORS MASA-TN-D-1803 20-12	SPECTRAL LINE SPECTRAL LINE IDENTIFICATION ON A COMPUTER MATT-90 N63-10783 02-20
SPECTRAL BAND ANALYSIS OF STRONTIUM HYDRIDE MOLECULES SHOWING MULTIPLE PERTURBATIONS	ZEEMAN PHENDMENON AND MAGNETIC RESONANCE — CLEAVAGE OF SPECTRAL LINES AND ENERGY LEVELS JPRS-17398 N63-12326 05-23
PHOTOCHEMICAL AND SPECTRAL PROPERTIES OF CHLOROPHYLLIN AFGRI-43-800 N63-23644 24-07	EFFECTS OF ION ASSOCIATION ON ENERGY TRANSFER RATES IN MAPTHALENE—MAPTHALENIDE SYSTEMS MEASURED BY PARAMAGNETIC RESONANCE LINE BROADENING METHOD N63-12400 06-07
SPECTRAL ENITTANCE EDGE EMISSION OF CADMIUM SULFIDE BOMBARDMENT BY ELECTRONS N63-10761 02-23	PRESSURE INDUCED SHIFTS OF INFRARED LINES DUE TO POLAR MOLECULES AFCRL-63-231 N63-13667 08-23
COMPARISON OF MEASURED AND THEORETICAL VALUES OF THE SPECTRAL INTENSITY OF ULTRAVIOLET SKY RADIATION	SPECTRAL ANALYSIS OF LINE BREADTH OF SPECTRAL LINE OF HYDROGEN FLUORIDE
AFCRL-62-1115	AFCRL-63-262 N63-15782 13-23
YIELD, SPECTRAL EMISSION, AND ANGULAR DISTRIBUTION MEASUREMENTS OF PRIMARY AND MODERATED NEUTRON	CALIBRATION OF SPECTRAL LINE INTENSITY RATIO EUR-202.F N63-16580 14-20
SOURCES USNROL-TR-587 N63-11238 03-24	IMFRARED SPECTROSCOPY — TRANSMISSION — SPECTRAL LINES AND ABSORPTANCE SSD-TDR-62-127, VOL., IV N63-16595 14-24
TABLE OF PLANCK RADIATION FUNCTION - BLACKBODY SPECTRAL RADIANCE AS FUNCTION OF MAYE NUMBER, 77 TO 30,000-DEG K AFCRL-62-877 N63-11858 04-23	ABSOLUTE LIGHT INTENSITIES OF SPECTRAL LINES BY PHOTOELECTRIC METHODS — OPTICAL MASER APPLICATION ARD—3323—505 19-22
HIGH TEMPERATURE SPECTRAL EMISSIVITIES OF WATER	EMISSION-LINE INTENSITIES IN SOLAR ULTRAVIOLET N63-19695 19-05
88E63-002 N63-15369 12-26	SOLAR EMISSION LINES IN EXTREME ULTRAVIOLET
SPECTRAL OUTPUT FROM XENON FLASH LAMPS MASA-CR-50175 N63-17140 15-09	N63-19696 19-05 STELLAR SPECTRUM LINES - FORMATION AND INTENSITY
GARBONIZATION OF PLASTICS, VAPOR PRESSURE AND SPECTMAL EMITTANCE OF REFRACTORY MATERIALS MADD-TR-60-646, PT. II	MASA-TT-F-116 N63-19860 19-24 ISOTOPE SHIFT AND HYPERFINE STRUCTURE IN ATOMIC
SPECTRAL EMITTANCE OF THERMISTOR DETECTORS OF	SPECTRAL LINE N63-21709 22-23
RADIOMETERS ON TIRDS SATELLITES MSL-10, SUPPL. N63-17446 15-21	SPECTRAL INVESTIGATION OF METALLIC HYDRIDES REVEALING NEW BANDS FOR STRONTIUM HYDRIDE — MOLECULAR STRUCTURE N63—21745 22-23
SPECTRAL RADIANCE OF CHEMICALS IN HIGH TEMPERATURE	SPECTRAL SHIFT CONTROL REACTOR
A635D3 N63-17602 16-23	SPECTRAL SHIFT CONTROL REACTOR BASIC PHYSICS - NUCLEAR PROPERTIES OF SLIGHTLY ENRICHED LATTICES

PROPERTY OF STREETS ASSOCIATION

HODERATED BY DEUTERIUM OXIDE - W	N63-15823	13-23	OBSERVED RADIATION PATTERN DURING ACTUAL REENTRY AND SPECTROGRAPHIC STUDIES OF RADIATION FROM PROJECTILES IN HYPERSONIC FLIGHT
SPECTRAL THEORY OF COLOR PERCEPT MAPTATION IN TERMS OF SPATIAL E	ION AND VISU	AL TON	CARDE-TH-1564/63 N63-20919 21-23 BALLOON FLIGHT SPECTROGRAPHIC STUDIES OF DAY
AND MODULATED WAVEFORMS PRODUCED NASA-CR-50351	BY SCANNING		AIRGLON 22-12
ORDER STRUCTURE MATRIX, POSITIVE	LINEAR OPER	3000 100 07	DETERMINATION OF COBALT AND MICKEL IN TUNGSTEN BY COMBINED ION EXCHANGE X-RAY SPECTROGRAPHIC METHOD BH-RI-6308 2235 23-18
AR00-2800-11	N63-18017	16-50	SPECTROHELIOGRAPH
COLOR VISION - THEORY OF SPECTRA NASA-CR-51807	N63-22578	23-23	MAPS OF SOLAR CHRONOSPHERE AND CATALOGS OF FLARES AND SUNSPOTS - SPECTROHELIOGRAPH ANALYSIS N63-20070 20-28
PECTROGRAM VARIABLE STAR OBSERVED WITH PHOT PHOTOMETER AND TELESCOPE - SPECT	OELECTRIC ROGRAM	14501A	SPECTROMETER STANDARD THE STANDARD STANDARD SPECTROMETER SA EBERT SPECTROMETER
- ROTLEAR FRELS - BUCLEAR	N63-17881	16-05	SA MASS SPECTROMETER SA ULTRAVIOLET SPECTROMETER
DETECTION OF WATER VAPOR ON HIGH	DISPERSION.	HRL-III	ELECTRON SPECTROMETER, INCREASED RESOLUTION AND
NEAR-INFRARED SPECTROGRAM OF MAR	N63-23048	24-29	SEAN CURRENT, ELECTRON IMPACT SPECTRA AFCRL-62-1070 M63-10562 01-15
SA ULTRAVIOLET SPECTROGRAPH	DOTACTO ME		SPECTROMETER FOR MEASURING MILLIMETRIC NAVE PROPAGATION 02-15
FLICKERING OF STAR IMAGES IN TEL BARYCENTRIC HIGH RELIEF OF LIMB	ZONE OF MOON	HT HT.	HOLECULAR-BEAM ELECTRIC-RESONANCE SPECTRONETER AND
SOLAR DIFFRACTION SPECTOGRAPH JPRS-17363	N63-12201	05-05	RADIO FREQUENCY SPECTRA OF LITHIUM FLUDRIDE UCRL-10482 N63-10872 02-07
UKRANIAN SOLAR DIFFRACTION SPECT	ROGRAPHIC		ELECTRON IMPACT STUDIES OF CARBON DIOXIDE WITH
TELESCOPE	N63-12204	05-05	OSCILLATOR STRENGTH DETERMINATIONS AFCRL-62-1085 N63-11012 03-07
PHYSICS OF SOLAR CORPUSCULAR STR UPPER ATMOSPHERE - SOLAR FLARES.		ECT ON	COMPUTER REDUCTION OF GAMMA RAY PULSE HEIGHT DATA
SPECTROGRAPH, AND AURORAE	N63-13775	08-29	OBTAINED WITH A SPECTRONETER USMRDL-TR-592 N63-11040 03-20
SPECTROGRAPHY SPECTROGRAPHIC INVESTIGATION OF			HICROWAVE CAVITY SPECTROMETER FOR MEASURING
PLASMA JET ARC TUNNEL PA-TH-1001	N63-10087	01-26	HYDROGEN ATOMS IN DISCHARGE AND DETERMINING SURFACE RECOMBINATION N63-11664 04-15
ELECTRON PROBE X-RAY SPECTROGRAP			RAINDROP-SIZE DISTRIBUTIONS AND VARIATION CAUSED
M-RI-6111	N63-11691	04-15	BY FALLING DISTANCE - SPECTROMETRIC AMALYSIS AFCRL-62-1091 N63-12289 05-21
SPECTROGRAPHIC DETERMINATION OF ACID SOLUTIONS	BORON IN BN N63-12440		SUBMILLIMETER INTERFERENCE SPECTROMETER N63-12952 06-15
SPECTROGRAPHIC ANALYSIS OF METAL	LIC IMPURITE	ES IN	PENGER MEETA-SON ()
RT/CHI/62/13	N63-12447	06-07	FIELD EMISSION SPECTROMETER TO MEASURE ELECTROM EMERGY DISTRIBUTION IN SEMICONDUCTORS M63-13593 08-15
RADIOTRACER TECHNIQUE IN ELECTRO	METALLURGICA	Liver III	1117044 3411 MS17400284 30 MD12215N63-13593 20 00-15
PROCESSING BH-RI-6195	N63-13311	07-18	PROPORTIONAL COUNTER SPECTROMETER FOR SOLAR X-RAY MEASUREMENT - DESIGNED TO BE MOUNTED ON AEROBEE MI
SPECTROGRAPHY IN PLASHA JET ANAL		AL	ROCKET TELEMETERING MOMOCHROMATOR AFCRL-62-1105 N63-13801 09-15
SUPERSONIC NOZZLE USING ARGON OR SC-4776/RR/	NITROGEN N63-14752	11-24	LUNAR AND PLANETARY LABORATORY - PHOTOMETER.
ANALYSIS OF TOACE ELEMENTS IN AL	UNINUM OXIDE	-3178	INFRARED SPECTRA OF VENUS, AND STELLAR SPECTROMETER N63-14008 09-05
MATRICES BY SPECTROGRAPHY	N63-14839	11-18	SIX-INCH MASS SPECTROMETER FOR ISOTOPIC ANALYSIS
QUANTITATIVE ANALYSIS OF SILICON		IN	OF SOLIDS, LIQUIDS OR GASES - BORON, LITHIUM & URANIUM STUDY
STAINLESS STEELS BY X-RAY SPECTR	OGRAPHY	12-18	A DECEMBER OF THE PROPERTY OF
METEOR SPECTROGRAPHY	N63-16645	14-05	RESPONSES OF VARIOUS DETECTOR SAMPLE ARRANGEMENTS FOR GANNA-RAY SPECTROMETRIC MEASUREMENTS HM-68525 N63-15722 12-23
DETERMINATION OF TRACE ELEMENTS	IN MINERALS	AND	SOLUTIONS - WILL OF CERALES-PRINCES TATION AND
ORES BY FLUORESCENT X-RAY SPECTA	OGRAPHY N63-17888	16-18	RESEARCH AND DEVELOPMENT OF NEW TECHNIQUES AND EQUIPMENT FOR ROCKET-BORNE SPECTRORADIOMETRIC
CHROMATOGRAPHIC AND SPECTROGRAPH BENZENE EXTRACTS OF HYDROCARBONS			SYSTEMS AFCRL-63-249 N63-16464 14-15
HYDROCARBON COMPOUNDS FROM DRGUE		J-1040.5	PRELIMINARY SOLAR FLARE OBSERVATIONS WITH SOFT X-RAY SPECTROMETER ON ORBITING SOLAR OBSERVATORY
MAGNETOHYDRODYNAMIC SHOCK TUBE - HIGH SPEED PERFORMANCE, AND EMIS	HIGH TEMPER	ATURE,	SATELLITE MASA-TH-X-30023 463-16708 14-28
HIGH SPEED PERFORMANCE, AND ENIS			SCINTILLATION SPECTAGMETER MEASUREMENT OF SPECTAL
RAPID SPECTROGRAPHIC METHOD FOR BERYLLIUM ON FILTERS	SEPLASSINEAN	N OF	AND SPATIAL EMERGY DISTRIBUTION OF PURSED X-RAYS GENERATED BY HIGH POWERED ELECTROMIC EQUIPMENT RADC-TOR-63-29 M63-18189 16-13
CADC-1157	N63-20735	21-14	K. S 1 (4) C 1 (
ADMINISTRACE STREET WAS MORE WORKED			PACTORS IN OUTER RADIATION BELT BY SCOUT ROCKET

SCINTILLATION SPECTROMETER AFSWC-TOR-62-105 N63-18796 1	N63-14635 10-16
NUCLEAR SPIN AND MAGNETIC MOMENT OF CADMIUM-11 SPIN LATTICE RELAXATION FOR HELTUM-3 MUCLEI IN SOLID HELTUM-3 - LASER SPECTROMETERS	USING SPECTROPHOTOMETER FOR MEASUREMENT NRL-5933 R63-21375 22-15
INVERSION MATRIX FOR HELIUM-3 FAST-NEUTRON	PHOTOELECTRIC SPECTROPHOTOMETER FOR LUNAR LUMINESCENCE SIMULATION
SPECTROMETER UCRL-10770 N63-20393 2	20-15
MEATHER SATELLITE SPECTROMETER - INFRARED AND ELECTRO-OPTICAL INSTRUMENTATION	SPECTROPHOTOMETRY SPECTROPHOTOMETRIC STUDY OF THE LUNAR SURFACE AFCRL-62-1096 N63-11019 03-29
BEC-4696 N63-21387 2	PHOTOGRAPHIC SPECTROPHOTOMETRY OF SHORT DURATION
A CONTRACTOR OF THE CONTRACTOR	TO LIGHT PULSES N63-11406 03-23
GENERALIZED FEEDBACK MICROWAVE OSCILLATOR	CHEMICAL ANALYSIS - NUCLEAR FUELS - NUCLEAR REACTOR - X-RAY FLUORESCENCE - SPECTROPHOTOMETRY N63-12435 06-07
ABSOLUTE CALIBRATION OF A SPECTRAL RADIOMETER AFCRL-63-602 N63-22763 2	SPECTROPHOTOMETRIC DETERMINATION OF SILICON IN 19-15 THORIUM DIOXIDE N63-12436 06-07
BROAD-BAND MICRONAVE SPECTROMETER - PERFORMANC USE IN MEASURING ATTENUATION, REFLECTION, AND PRESSURE BROADENING OF MOLECULAR TRANSITIONS	E 6 SPECTROPHOTOMETRIC DETERMINATION OF ZIRCONIUM IN THORIUM-ZIRCONIUM ALLOYS N63-12437 06-07
N63-23404 2	4-15 EXTRACTION AND SPECTROPHOTOMETIC DETERMINATION OF TUNGSTEN WITH 8-QUINOLINOL N63-12438 06-07
ELECTRON TIME-OF-FLIGHT SPECTROMETER N63-23562 2 SPECTROMETRY	4-23 INFRARED SPECTROPHOTOMETRY FOR LUNAR AND PLANETARY SOIL ANALYSIS NASA-TN-D-1871 N63-14406 10-29
SA MASS SPECTROMETRY	DESCRIPTION OF THE PROPERTY AND THE PROP
SCANNING MECHANISM FOR A SATELLITE-BORNE X-RAY SPECTROMETER MASA-TN-D-1097 N63-10204 0	SPECTROPHOTOMETRIC DETERMINATION OF URANIUM IN MIXTURES OF URANIUM AND TUNGSTEN 11-15 LA-2844 N63-14529 10-07
SCINTILLATION METHOD IN RADIOMETRY AEC-TR-5259 N63-11663 0	BIOCHEMISTRY - PHOTOSYNTHESIS, AMINO ACIDS, CHLOROPLAST, SPECTROPHOTOMETRY, AND METEORITES UCRL-10634 N63-14631 10-07
ANALYTICAL CHEMISTRY - ELECTROCHEMISTRY, RADIA DAMAGE, SPECTROMETRY, INSTRUMENTATION 0RNL-3397 063-12657 0	
PRECURSOR SIGNALS - PHOTOIONIZATION AND ELECTR DIFFUSION - SPECTROMETRIC DETERMINATION	AND LUMINUSITY N63-16646 14-05
N63-14315 1 SIMULATED INTERFEROMETER FOR FOURIER TRANSFORM REGIONS AND TO EMISSION OR ABSORPTION LINE PRO	RAL INSTRUMENTATION N63-17719 16-05 FILE
N63-15283 1	2-15 SOLVENT EXTRACTION - SPECTROPHOTOMETRIC METHOD FOR DETERMINATION OF COPPER IN TUNGSTEN METAL
HETERODYNE INTERFERENCE SPECTROSCOPY FOR HIGH RESOLUTION MEASUREMENT OF ABSORPTION LINES	AND TUNGSTEN OXIDE BM-RI-6277 N63-19800 19-07
N63-15284 1	2-15 SPECTROMETRY OF ELECTRON INTERFERENCE - EVALUATION
PRELIMINARY SOLAR FLARE OBSERVATIONS WITH SOFT X-RAY SPECTROMETER ON ORBITING SOLAR OBSERVATO SATELLITE	AND COMPARISON OF SPECTROGRAM TO THEORY
NASA-TH-X-50023 N63-16708 1	4-28 SPECTROMETRY OF ELECTRON INTERFERENCE - ELECTRON OPTICAL PATTERNS FOR VELOCITY ANALYSIS
APPLICATION OF BARRIER SOLID STATE DETECTORS TO SPECTROMETRIC ANALYSIS OF SELF-ABSORPTION OF A	
PARTICLES AND FISSION FRAGMENTS	SPECTROPHOTOMETRIC DETERMINATION OF HICRO- S-25 QUANTITIES OF CHLORIDE IN PLUTONIUM METAL AFTER
INTERPRETATION OF X-RAY PHOTOGRAPHS OF SUN N63-19702 1	PYROHYDROLYSIS LA-2921 N63-21454 22-23
SPECTROMETRY OF THETA LEONIS STAR	3-05 DETERMINED BY TOTAL RADIATION DETECTOR N63-22313 23-27
SPECTROMETRY AND INFRARED HONOCHROMATIC RADIAT MEASUREMENTS OF PLASMA JET TEMPERATURES N63-23486 2	SPECTROPHOTOMETRIC DETERMINATION OF IRON BY COMPLEXING WITH PYRIDINE 6 PHENANTHROLINE
SPECTROPHOTOHETER	RSIC-41 N63-22683 23-19
MANDRAS, JOS. NEWSTHINGSON, WRITERDAY 25402, NEDLINCTIES	7-23 SPECTROPHOTOMETRIC ANALYSIS OF PHOTOSYNTHESIS BY CHLOROPHYLL AND OTHER PLANT PIGMENTS
OTGITALIZED MULTI-COLOR PHOTOMETER AND DATA REDUCTION SYSTEM FOR STELLAR OBSERVATIONS IN O TO 5.0 MICRON REGION N63-14009 O	A-15 CASCYBACCORE
SPECTROPHOTOMETER FOR PRODUCING ABSORPTION CHA	SA STIGNATIC SPECTROSCOPE

METER STIGNATIC SPECTROSCOPE	MAL-TR-830.5/5
TDR-169/3210-06/TR-1 N63-12279 05-15	BIBLIOGRAPHY OF EXPLODED CONDUCTOR PHENOMENON FROM
SPECTROSCOPIC STUDIES OF RADIATION DAMAGED BROWINE	1774 TO 1961 AFCRL-62-1053
ISOTOPES AROD-2770-3 N63-22156 22-19	ELECTRON PROBE FOR SPECTROSCOPIC ANALYSIS OF RADIOACTIVE MATERIALS
SPECTROSCOPIC ANALYSIS OF LIGHT ELEMENTS N63-23064 24-07	EUR-118.F. 1014 1014 1014 N63-13762 08-07
QUANTATIVE SPECTROGRAPHIC DETERMINATION OF ELEMENTS IN SOLUTION USING ATOMIZER & SPARK	METHODS FOR STUDYING SOLAR CORPUSCULAR STREAMS AND THEIR SOURCE IN SOLAR ATMOSPHERE - SPECTROSCOPY AND GEOMAGNETISM
ANALYSIS RSIC-78 N63-23716 24-18 SPECTROSCOPIC ANALYSIS OF IMPLODING PLASMA RINGS	SPECTROSCOPIC STUDY OF CORPUSCULAR EJECTIONS ON THE SUN - FACULAE EMISSION FROM HYDROGEN AND CALCIUM N63-13777 08-28
IN DETONABLE GAS MIXTURES RAD-865A RAD-865A RAD-865A RAD-865A	SPECTROSCOPIC OBSERVATIONS OF DISTANT COMET TAILS,
TROSCOPY INFRARED SPECTROSCOPY	OSTERBROCK ORIENTATION & CURVATURE, BESSEL- BREDICHIN THEORY NASA-TN-D-1671 N63-13794 09-05
MASS SPECTROSCOPY COLORIMETRY ELECTRON MICROSCOPY	ION-ATOM AND ION-MOLECULE COLLISIONS - SPECTROSCOPIC STUDY MITH ION BEAMS AFCRL-63-225 N63-14240 10-23
FREQUENCY PHOTOMETRY PECTROSCOPY, NUCLEAR MAGNETIC RESONANCE, PLASMA YMANICS, COMMUNICATIONS ENGINEERING	MAGNETIC AND SPECTROSCOPIC PROPERTIES OF RARE EARTH IONS BY HARTREE-FOCK CALCULATIONS MRL-118 N63-14269 10-23
N63-10165 01-01 NERGY LEVELS OF THE NITRIC OXIDE MOLECULE BY BSORPTION SPECTRA	HIGH-DIELECTRIC CONSTANT MATERIALS - HIGH TEMPERATURE DIELECTRICS, MAGNETIC SPECTROSCOPY, CRYSTAL PHYSICS & MAGNETICS M63-14620 10-23
FCRL-62-1016 N63-10214 01-07 PECTROSCOPIC TEMPERATURE AND PRESSURE MEASUREMENT N THE VENUS ATMOSPMERE PL-TR-32-251 N63-10245 01-29	REACTOR INSTRUMENTATION AND CONTROLS - RADIATION MONITORING, NUCLEAR SPECTROSCOPY, DATA PROCESSING, HIGH-VOLTAGE ACCELERATOR SUPPORT EQUIPMENT ORM3191 11-01
UASI-ELASTIC SCATTERING BY ROOM TEMPERATURE LIGHT	QUANTITATIVE ANALYSIS OF MULTICOMPONENT PULSE- HEIGHT SPECTRUM FROM DECAY OF RADIONUCLIDES HM-75806 M63-14863 11-20
ECTROSCOPY OF SOLID STATE SURFACES CONTAINING CORRED MOLECULES, GERMANIUM, STLICON	TEMPERATURE AND DENSITY OF HYPERSONIC FLOW BY SPECTROSCOPIC ANALYSIS
CRL-62-585 N63-10759 02-25 CLEAR PHYSICS - NUCLEAR REACTIONS, SPECTROSCOPY, GNETIC RESONANCE, NEUTRON SCATTERING AND	HEAVY MESONS AND EXCITED BARYONS - MASS SPECTRA, QUANTUM NUMBERS, LIFE TIMES AND DECAY NODES SLAC-13 N63-15810 13-23
FRACTION, RADIATION DAMAGE - SYMPOSIUM, 1962 N63-10767 02-23 SORPTION SPECTRUM OF THE NITRIC OXIDE MOLECULE	BIBLIOGRAPHY ON HIGH TEMPERATURE RESEARCH IN GAS- LIQUID INTERACTIONS, REACTIONS, AND SPECTROSCOPY
CRL-62-1118 N63-11020 03-07	DIELECTRIC, SPECTROSCOPIC, AND PHOTOCONDUCTIVE
DECULAR STRUCTURE AND SPECTROSCOPY - SYMPOSIUM, IKYO, 1962 N63-11580 04-07	PROPERTIES OF ORGANIC COMPOUNDS FOR SENICONDUCTORS ARF-3142-12 M63-16112 13-25
DLID STATE AND MOLECULAR PHYSICS N63-11653 04-25	ELECTRON-ION RECOMBINATION IN HELIUM PLASMA BY ELECTRON-IONIC COLLISION - EXCITÉD HELIUM SPECTROSCOPY
LECULAR SPECTROSCOPY AND CALCULATION METHODS RS-17176 Annual Commission No. N63-11843 04-07	HE-150-211 M63-16679 14-24
NECULAR SPECTROSCOPY OF PLANETARY ATMOSPHERES - NUS AND MARS 163-12377 06-29	SPECTROCHEMICAL DETERMINATION OF BORON IN MOLVBORNUM ASD-102-63-290 M63-17235 15-07
INDOWLESS TUBES FOR X-RAY SPECTROSCOPY N63-12579 06-23	RELATIVE INTENSITY MEASUREMENTS IN MICRONAVE SPECTROSCOPY M63-17691 16-07
SICITY OF M-MITROSAMINES AND AQUEOUS SULFURICIONS	QUANTITATIVE SPECTROCHEMICAL ANALYSIS OF METALLIC
00-2276-3 N63-12711 O6-07	FILTER ELECTRODE BH-R1-6249 N63-17714 16-07
LECTRICAL AND MAGNETIC PROPERTIES OF ORGANIC DLIDS - ELECTRON SPIN RESONANCE SPECTROSCOPY FCRL-62-1116 N63-12731 06-07	DISSOCIATION EMERGY OF GROUP IV AND GROUP VI MOLECULES - SPECTROSCOPY AND THERMOCHEMISTRY DATA WADD-TR-60-782, PT. X N63-17940 16-07
YPERFINE STRUCTURES AND NUCLEAR MAGNETIC MOMENTS Y ATOMIC-BEAM RADIO FREQUENCY SPECTROSCOPY RL-10321 N63-12939 07-23	TRANSITION PROBABILITY FROM MOLECULAR SPECTRUM - VIDRATIONAL QUANTUM NUMBERS - VACUUM ULTRAVIOLET
IBLIOGRAPHY FOR HINDERED INTERNAL ROTATION AND ICROWAVE SPECTROSCOPY N63-12940 07-07	SPECTROSCOPY OF MAGNESIUM, ELECTROLYTIC REDUCTION OF URANIUM OXIDE AND ELECTRON MICROSCOPE STUDY OF
GEOMETRY OF HIDDEN DEFECTS DETERMINED BY ULTRASOMIC PULSE ANALYSIS AND SPECTROSCOPY	CHEMICAL BONDING OF URANIUM & ALUMINUM-SILICON MCU-1480 R63-18073 14-07

GEOMETRY OF HIDDEN DEFECTS DETERMINED BY ULTRASONIC PULSE ANALYSIS AND SPECTROSCOPY

日の日本日本

RIE SSC HOS NOA PRR SH

E POWER SPECTRA OF THE MAGNETOTELLURIC FIELD OF E EARTH N63-11201 03-12
E ELECTROMAGNETIC SPECTRUM - LIFETIME OF CADMIUM -3-62-SC-78330 N63-11433 03-23
AR SIMULATOR FOR REPRODUCTION OF BLACK-BODY
DIATION SPECTRUM OSR/DRA-62-22 N63-11489 03-28
ECTRUM OF RADIO EMISSION FROM DISCRETE SOURCE SSIOPIA-A LOW FREQUENCIES N63-11524 03-05
ECTRAL SENSITIVITY OF RETINA RECEIVERS IN
CHROMATS RS-17054 N63-11683 04-16
MPERATURE COEFFICIENTS & SPECTRA IN MYDRIDE
DERATED SNAP REACTORS A-SR-7140 N63-11825 04-04
A SELECT AND A LITE OF MINISTER STATE OF STREET STATE OF STREET, STREE
DIATION STABILITY OF ORGANIC REACTOR COOLANTS DIOLYSIS YIELD OF POLYPHENYLS IRRADIATED IN
UTRON-RICH SPECTRUM OF THE SUSIE REACTOR D-16999 N63-11828 04-23
FRARED FLUX & SURFACE TEMPERATURE DETERMINATIONS OM TIROS RADIOMETER MEASUREMENTS
L-10 N63-11881 04-21
ECTRAL OBSERVATIONS OF SOLAR RADIO BURSTS -
NTINUUM BURSTS CRL-62-1117 N63-12121 05-28
ENGLISE SCHOOL SOLDEN ELATER DESTRUCTIONS DE LA CONTRACTION DE LA
PERFINE STRUCTURES AND NUCLEAR MAGNETIC MOMENTS ATOMIC-BEAM RADIO FREQUENCY SPECTROSCOPY
RL-10321 N63-12939 07-23
AVITATIONAL INSTABILITY AND ONE-COMPONENT PLASMA CILLATIONS IN CHARGED GAS - APPLICATION TO
ELLAR SPECTRA -33 N63-12985 07-24
SORPTION AND REFLECTION OF LITHIUM FLUORIDE AND LENIUM IN EXTREME VACUUM ULTRAVIOLET AND/OR SOFT
RAY REGIONS DD-2588-3 N63-13053 07-23
W TEMPERATURE CELL FOR EXPERIMENTS ON INFRARED
ECTRA OF LIQUID AND SOLID CARBON MONOXIDE L-TR-32-357 N63-13136 07-07
MOSPHERIC MECHANICS - PRECIPITATION AND MOISTURE UX, LARGE-SCALE SPECTRA, MEAN WIND STABILITY,
CRL-63-209 AND QUASI-LAGRANGIAN FLOW COORDINATES CRL-63-209 N63-13286 OT-12
AST SQUARE ANALYSIS OF GAMMA RAY PULSE HEIGHT
ECTRA
L-TR-32-373 N63-13446 08-23
ND STRENGTH OF VIBRATION SPECTRUM OF WATER N63-13681 08-05
DROGEN EMISSION IN SPECTRUM OF POLAR AURORAE
N63-13783 08-12
T NOISE FAR FIELD SPECTRA AND DIRECTIVITY
RL-TR-1007 N63-14191 09-27
NCHROTRON EMISSION FROM HIGH-ENERGY ELECTRONS -
L-62-149 N63-14246 10-12
LORED FLAME COMPOSITION OF FIREWORKS - EFFECT OF MBUSTION, DXIDATION AGENTS & COLORING AGENTS
L/T-5129 N63-14408 10-07
FECTS OF SPECTRAL CONTENT AND DURATION OF
SA-TN-D-1873 N63-14430 10-23
OBABILITY DYNAMICS IN WEATHER FORECASTING - TIMATION THEORY FOR FUNCTIONS OF SPECTRAL
MA 3-14324 10-21
NSTTY N63-14524 10-21 FIGAL TRANSITION PROPERTIES - SURVEY
I I JOS BY BEEF BEEF BEEF BEEF WELL BEEF WELL BEEF BEEF BEEF BEEF BEEF BEEF BEEF B

.

INFRARED SPECTRAL ANALYSIS OF LU	MAR SURFACE FROM 1147 N63-14660 72 10-29 2
QUANTITATIVE ANALYSIS OF MULTICO HEIGHT SPECTRUM FROM DECAY OF RA HW-75806	MPONENT PULSE- NOTOMUCLIDES N63-14843 11-20
AMALYSIS OF GEOSTROPIC KINETIC E LARGE SCALE ATMOSPHERIC TURBULEN EMERGETICS	NERGY SPECTRUM OF
INFRARED SPECTRA OF STARS AND PL	ANETS - PART 11, N63-15084 11-05
SPECTRUM ANALYSIS OF HIGH ENERGY LINEAR ENERGY TRANSFER /LET/ AND SIOLOGICAL EFFECTIVENESS /RBE/	PROTON RADIATION,
PART OF LAND OF A CANADA CONTRACTOR	N63-15136 11-28
OBJECTIVES OF ORBITING ASTRONOMI SATELLITES - CONTINUOUS ULTRAVIO MEASUREMENT OF CELESTIAL RADIATI	LET & INFRARED
REFLECTION SPECTRUM OF CUBIC ZIN INTERBAND TRANSITION REGION 4000 ELECTRON INTERACTIONS	-400A - PHOTON- 12-23
SAMMA RAY MEASUREMENT AND LOW EN SPECTRUM IN ATMOSPHERE PRODUCED CR-62	BY COSHIC RAY
HEAVY MESONS AND EXCITED BARYONS QUANTUM NUMBERS, LIFE TIMES AND SLAC-13	DECAY MODES M63-15810 13-23
MEASUREMENT OF OPTICAL CONSTANTS OXIDE AND CALCIUM TUNGSTATE AFCRL-63-454	OF MAGNESIUM N63-15826 13-25
FREQUENCY DISTRIBUTIONS OF SPECT REFLECTED RADIATION FROM TERRAIN RPA-6-62	AND CLOUDS N63-16027 13-21
GENERALIZED RESPONSE EVALUATION NULTIDEGREE SPRING MASS SYSTEM -	PROCEDURE FOR VIBRATION N63-16081 13-33
AIRBORNE VIBRATION SPECTRUM ANALAND LIMITATION	YS15 - TECHNIQUES N63-16088 13-15
EXTENDING USEFUL RANGE OF ELECTI	
CONDITIONS FOR DISCRETENESS OF S SINGULAR ELLIPTIC OPERATORS - CO DIRICHLET OPERATOR UCAL-10744	
METEOR SPECTRA - WAVELENGTH - PA	HOTOGRAPHS
WOULD M	HYPERYELDELTY ARGO
METEGR SPECTROPHOTOMETRY - METEC AND LUMINOSITY	M63-16646 14-05
STAR TRACKING - H ALPHA LINE IN	

	THE RESERVE AND ADDRESS OF THE PARTY OF THE	1. 1. V.D. G 202, P. S S. S 2. S 2
	SCINTILLATION SPECTRONETER H AND SPATIAL EMERGY DISTRIBUT GENERATED BY HIGH POWERED EL RADC-TOR-63-29	REASUREMENT OF SPECTRA TON OF PULSED X-RAYS ECTRONIC EQUIPMENT NOS-10109 16-15
	PHYSICS OF FAST REACTOR - NE USING RESONANCE EFFECT	N63-18199 16-23
	INTENSITY DISTRIBUTION IN UL	
	STELLAR SPECTRUM LINES - FOR	N63-19860 19-28
	LIGHT SCATTERING OF SPHERES OF DIFFERENTIAL SCATTERING S OF OBSERVATION	- MAVELENGTH EXPONENT SPECTRA AT 90-DEG ANGLE N63-20738 21-23
	BALLOON FLIGHT DATA ON VARIA SPECTRUM WITH ALTITUDE AFCRL-490	TION OF INFRARED SOLAR
	MITROGEN SPECTRA FROM GLOW C SUPERSONIC MOIST AIR FLOW BAL-MEMO-1490	N GROUNDED PROSE IN 163-21249 21-02
	SPECTRAL AMALYSIS OF SOLAR P DECAMETER RANGE	ADTO BURSTS IN THE PORT
	MASA-CR-51033	N63-21254 21-28
	CODE FOR COMPUTATION OF THEM	CALL TO A LEGISLATION OF THE PARTY OF THE PA
	GA-4132	M63-21704 22-23
	NOLECULAR STRUCTURE AND SPEC ON ATOMS & MOLECULES AND DIG PROGRAMS	TRA - THEORETICAL WORK SITAL COMPUTER N63-21737 22-23
	TRANSITION SPECTRUM OF SILTO MOLECULAR STRUCTURE AND SPEC MRC-6781	ON FLUORIDE MOLECULE - TRUM H63-21744 22-23
	BAND SPECTRUM OF INDIUM HYDE HOLECULAR STRUCTURE	N63-21748 22-23
	THEORETICAL COMPUTATIONS ON SIMPLE MOLECULES AND THEIR S	ELECTRON STATES OF SPECTRA NAS-21759 22-23
	VIDEO DETECTION TECHNIQUES A MILLIMETER AND SUBMILLIMETER RADC-TDR-63-365	APPROPRIATE FOR R RANGE OF SPECTRUM N63-22406 23-09
	ATHOSPHERIC TRANSMISSION CU CONDITIONS KE-TR-63-13	NA3-22405 23-21
	SPECTRUM & LIGHT-CURVE OF SE	UPERNOVA TH NGC 3938
	NEUTRON ENERGY SPECTRA FROM MESON CAPTURE	NUCLEI EXCITED BY IN-
	UCAL-10516 IN CAP OF ACAD	MAJ-22031 23-23
	PRESSURE INDUCED SHIFTS OF I	HOLECULAR BAND LINES OF H63-23201 24-23
	SPECTRAL ABSORPTION OF DIRECTADIATION	T AND DIFFUSE N63-23336 24-12
	MODEL OF CLEAR STANDARD ATM ATTENUATION IN VISIBLE REGIO AFCRL-63-675	ARRIST REPORT
30	EECHS SEEDS-EER.	MOS OW, WHAT ENTWHALE
	SPEECH COMPRESSION SYSTEM -	VOCODER SPEECH DIMUNICATION NG3-15657 12-00
	THE REAL PROPERTY AND ADDRESS.	STATE OF STREET

HUMAN HEARING AND SPEECH DURING WHOLE-BODY VIBRATION - RESEARCH ON LOW PREQUENCY VIBRATION

DISCOVERY, LUMINOSITY, AND SPECTRAL TYPE OF HOVA URSAE MINORIS 1956 N63-17797 16-05

ULTRAVIOLET STELLAR SPECTRA FROM ROCKET SQUMDINGS, COMPARISON OF OBSERVED RADIATION FLUX WITH MODEL STELLAR ATMOSPHERES AND INTERSTELLAR RADIATION MASA-TR-X-50021 M63-16707 14-28

FISSION NEUTRON ENERGY SPECTRA FROM URANIUM 295, URANIUM 233 AND PLUTONIUM 239 LANS-2883

THERMOLUMINESCENCE SPECTRA AND ACTIVATION EMERGIES FOR AROMATIC AMENO ACIOS, TRYPSIN, AND SPORES OF BACILUS MEGATERIUM ORNI-3115

EFFECT OF DELAY TIME AND NUMBER OF DELAYS ON SPECTRA OF RIPPLE-FIRED BLASTS IN QUARRY BLASTING AFCRL-63-296 N63-17633 16-12

10 H63-17197 31/15-15

ME NO 3 MOT YOU MES-17442 4 15-16

D3-3512-3	N63-16174	13-14		NUMBER SPACECRAFT	QLI IRQ
COMPARISON OF SPEECH SIGNALS PR AND BY DIGITAL VOICE DATA PROCES INTELLIBETED HITTY TEST AFCRL-63-118	SSING SYSTEM	AND BY	SA CHROMOSPHERE SA RAGMETOSPHERE SA PHOTOSPHERE SA PLANISPHERE SA THERMOSPHERE	TORRY SPECTALIN FROM	BN- NH
VOICE COMMUNICATION SYSTEM - SPI RECOGNITION AFCRL-63-119	NY BUNKROSSI	10H AND	CF OGIVE UNSTEADY HYPERSONIC WAKE BEHIN 860-TDR-62-105	D SPHERES	NAZ
PSYCHOACOUSTIC SPEECH TESTS - VI	USTRIBIO/YT	LINTERS.	DRAG OF SPHERES IN HYPERVELOCI AEOC-TDR-62-205	TY RAREFIED GAS F M63-10673 02	
ESD-TOR-63-403	N63-19379	18-08	PROJECTED AREAS OF AXISYMMETRI FOR SEVERAL GEOMETRIC FIGURES	EVENT VENSION REAL	MYA
INFLUENCE OF LOW-FREQUENCY VIBRATERISSION	ATION UPON S	PEECH	82-11 94153-19N /381/ 553W	N63-10696 02	2-20
AMRL-TOR-63-49		21-08	HEAT TRANSFER TO A SPHERE WITH EXHAUSTING INTO A FREESTREAM		180
INTELLIGIBILITY AND FREQUENCY ST SPEECH FROM SPACE - BIOLOGY OF	WEIGHTLESSNE	IUMAN SS	NASA-TH-D-1535 TEROTVART NO SUCH	N63-10733 02	1-13
SPEECH-INTELLIGIBILITY AND TALK	N63-21516 ER-RECOGNITI	4-3723A	INERTIA SPHERE TO DAMP THE ANG SPINNING SPACECRAFT NASA-TR-R-137		2-30
TESTS OF AIR FORCE VOICE COMMUN.		EM PTEM	BUCKLING MECHANISM OF SPHERICA ON BOUNDARY CONDITIONS	L CAPS - DEPENDEN	TVB
FEASIBILITY OF MULTIPLEXING TEL NONSPEECH TIME OF VOCODED SPEEC AFCRL-63-300	H TRANSHISSI N63-22192	ON 23-08	COMPARISON OF EXPERIMENTAL AND BUCKLING PRESSURES FOR SPHERIC	THEORETICAL AL CAPS	242 -63
SPEECH DISCRIMINATION		F2-#2AH	12275246 ZZAH - EMDYRAE GST1:	WE WELLDRIC SAND TEXT	2-33
SPEECH COMPRESSION STUDIES AFCRL-62-739	M63-11036	03-08	FALLING-SPHERE EXPERIMENT FOR INSTRUMENTATION AFCRL-62-662	N63-11030 01	3-15
PREDICTION OF SPEECH DISCRIMINA OTHER AUDIOMETRIC DATA - HEARING EARS	G LOSS IN NO		X-RAYS PASSING BETWEEN TWO IDE	NTICAL SPHERES	1-17
SAM-TDR-62-145	N63-12332	05-14	EFFECTS OF STAINING ON MICROSP	ATTENATION OF SAL	
SPEECH DISCRIMINATION AND AMALY: PROCESSING		DATA	THERMAL POLYAMINO ACIDS	N63-11326 0	3-16
VISUAL AND AUDITORY STUDIES - 1	N63-13772		APPLICATIONS OF SIMPLIFIED SPH EQUATIONS TO SPHERICAL REACTOR WAPD-TM-294	SLAB GEONETRY	205
INTELLIGIBILITY THROUGH PRE-EMPI MASKING BY GAUSSIAN NOISE	HASIS PRIOR	TO	NUMERICAL ERRORS IN INTEGRATIO	N OF BAROTROPIC	FLOW
MRL-TDR-62-11 WORKER IN DESCRIPTION OF THE PART OF	ALECULES A	09-23	ON SPHERICAL GRID	N63-12469 0	
SPEECH COMPRESSION SYSTEM - VOC TRANSMISSION FOR MILITARY COMMUN RADC-TOR-63-90	NICATION	12-08	THEORETICAL AND EXPERIMENTAL I	SPHERES	6-23
TEST FOR SPEECH DISCRIMINATION (AUDIOLOGY SAM-TDR-62-135			POWER IMPUT TO SMALL FLAT PLAT RADIATING SPHERE WITH APPLICAT	E FROM DIFFUSELY	#93 #55
SPEECH DISCRIMINATION IN HOISE			SATELLITES - SPINNING PLATE NASA-TN-D-1545	X4101-1	
INDIVIDUALS WITH HEARING LOSS SAM-TOR-62-130			SPHERES AND BLUNT BODIES IN LO	HOW SPECTER - WAY	138
DATA SYSTEMS USING DIGITAL COMPI	UTERS, MAGNE	TIC	HYPERVELOCITY ARGON FLOW AEDC-TDR-63-21 40 3150 4 7713	01 N63-13036 0	
FILMS, COMPUTER COMPONENTS, AUTO RECOGNITION, & HUMAN INFORMATION		MESON C	FREE OSCILLATIONS OF GRAVITATI		
SPEECH AMALYSIS AND DISCRIMINAT	N63-21486	22-23	EARTH-REFLECTED SOLAR RADIATIO SATELLITES IN ELLIPTICAL ORBIT NASA-TN-D-1472	MANAGER STREET, ST	7-28
SPEED S ALASPEED S FORWARD SPEED S SONIC SPEED S SUBSONIC SPEED		FEDINET.	MEASUREMENT OF MIND IN UPPER A SPHERES FROM SOUNDING ROCKETS SAD-100	AND BALLOONS	
SPERNER LEMMA SPERNERS LEMMA AND SOME EXTENSION ANALYSIS	ONS - MATRIX N63-20388	20-20	DYNAMIC ANALYSIS OF LIQUID IN MITH APPLICATIONS TO TRAJECTOR OF CONTROL IN MISSILE AND ROCK	A SPHERICAL TANK Y FAILURE AND LOS ET FLIGHT	55
SPERT PROJECT - REACTOR AND FACT	LITY REPORT N63-17611	16-23	MIE SCATTERING FUNCTION FOR SP APPLIED TO THE CONTINUUM OF CO INDEX, APPLIESTLY, AND POLARIZA AFCRL-63-233	HERICAL PARTICLE METS - REFRACTIV TEON	5 E
SPERT REACTOR PROJECT - DESTRUCT ALUMINUM-CLAD URANIUM FUEL ELEMI 100-16893	NTS N63-18811	18-23	MONTE CARLO FORTRAM PROGRAMS F NEUTRON ABSORPTION IN SPHERES	OR CALCULATING DISTRIBUTED RAND	OMLY
CH ON CON PAYOR EXOLUTION			WAPD-TH-352 DUJ-TOHOM AUTUUR RO	N63~14052 0	9-20

180°0 1880

140g 1406 1401 1-18

1-02

FLOW 2-02 NS 2-20

2-13

2-30 NCE 2-33

2-33 . -15 -17 DN -16

-20 LOW -21

-23

-06

11 33

28 38

23

13

Y

CYLINDER-SPHERE DRAG AND STABILITY IN RECTILINEAR COUETTE FLOW	JPL-TR-34-160 H63-18848 11018-02
COURTE FLUID DYN. RES. LAB63-1 N63-14410 10-02	INVISCIO FLOW FIELD - SHOCK LAYER DAYA FOR 10-DEG SPHERE-COME N63-19017 - 10-11
LIQUID MOTION IN SPHERICAL CAVITY OF RIGID BODY -	HYPERVELOCITY FLIGHT OF COPPER-PLATED-SPHERES IN LOW PRESSURE AIR - SHADOWGRAPHS AND RADIATION PATTERNS
LIQUID CORE	DRL-TR-62-214, VOL. I H63-19240 18-10
SPHERES OF ABLATING MATERIAL SUBJECTED TO AERODYNAMIC HEATING TO DETERMINE PHYSICAL PROPERTY MASA-TH-0-1635 N69-15051 11-13	MENTONIAN DYNAMIC DAMPING COEFFICIENTS FOR SPHERE CONES AT ANGLE OF ATTACK N63-19505 19-20
PORTABLE INTEGRATING SPHERE FOR MONITORING SOLAR REFLECTANCE OF SPACECRAFT COATING	SCATTERING COEFFICIENTS FOR BACKSCATTERING OF ELECTROMAGNETIC MAYES FROM PERFECTLY CONDUCTING SPHERES
NASA-TN-0-1714 : N63-15053 : 11-15	CAL-AP/RIS-1 21/39/2 JADIRSH92 NO M63-19510 NI 19-09
STREAMLINES ON SPHERE-CONE AT ANGLE OF ATTACK IN SUPERSONIC FLOM FROM MEASURED SURFACE PRESSURE DISTRIBUTION AFRODYMANICS RES. REPT189 N63-15176 211-11	STAGNATION POINT LAMINAR HEAT TRANSFER OF SPHERE IN AIR AND NITROGEN AT HIGH TEMPERATURES AEDC-TDR-63-139 BM JACIRBARY BM N63-19644 1 19-13
LUMAR SELENDGRAPHY - REDETERMINATION OF LIBRATION CONSTANTS, LUMAR SPHERICITY MEASUREMENTS,	PRESSURE PULSE PROPAGATION MODES IN COMPRESSIBLE FLUID SPHERE AFCRI-63-682 N63-19649 19-23
NICRORELIEF PHOTOINTERPRETATION OTTHER AND TRIBLED AS AFCRL-63-406 MS2 CMA LADARONLIVS N63-15223 3x 11-29	INTEGRAL AND SPHERICAL-HARMONIC ANALYSIS OF THE GEOMAGNETIC FIELD
ARRODYNAMIC CHARACTERISTICS OF TOWED BODIES - SPHERE'S, CONES, AND CONICAL RINGS - DECELERATORS	NASA-CR-50609 N63-19857 19-12
AT SUPERSONIC SPEEDS ON JAJIA 20 044 403 1904 170 12-02	ALUMINUM EXPULSION DIAPHRAGM FOR SPHERICAL TOTAL PROPELLANT TANKS NASA-CR-50846 N63-19991 19-17
LAMINAR AND TURBULENT WAKE CALCULATIONS FOR NOL TEST SPHERE 6851-TM-76-A 1724-1 CH232 CMT N63-15617 12-11	LIGHT SCATTERING OF SPHERES - WAVELENGTH EXPONENT OF DIFFERENTIAL SCATTERING SPECTRA AT 90-DEG ANGLE
ELASTIC BEHAVIOR OF NONADHESIVE RUBBER BINDER CLOSE-PACKED WITH RIGID SPHERICAL PARTICULATE	PROPAGATION OF PULSES IN COMPRESSIBLE FLUID
INCLUSIONS - MATHEMATICAL MODEL FOR SIMPLE TENSION GALCIT-SM-63-2 N63-15932 13-33	SPHERES TARRY TO SHELDUE ON MOITAKROTED SIMERYC AFCRL-63-682 SHEGRAL ELARRY GMALI N63-21038 2 21-11
AERODYNAMIC COEFFICIENTS FOR COMES AND SPHERES NASA-TR-R-127	TRANSPORT COEFFICIENTS OF A SYSTEM OF HARD SPHERES WITH SQUARE WELL ATTRACTIVE FORCES UCRL-7376 M63-21041 21-23
EVALUATION OF USE OF NETAL SPHERES AS TARGETS FOR BUIDED MISSILE RADAR SYSTEMS LE-TR-62-6 N69-16448 14-08	HYDROMACNETICS OF SPHERICAL COMDUCTORS
SLOSH DAMPING EFFECTIVENESS OF POSITIVE EXPULSION BAGS AND DIAPHRAGMS IN SPHERICAL TANKS WASA-TH-0-1712 N63-16601 14-11	HEAT TRANSFER TO SPHERE FOR FREE MOLECULE FLOW OF NOMUNIFORM GAS
NASA-TH-D-1712 N63-16601 14-11 ELECTRON MICROPROBE ANALYSIS OF BLACK SPHERULES	HT-5 118284 Ind.M CHARLESTON APP. H63-21784 2-22-13.1
FOUND IN PACIFIC ISLANDS DEER SEA SEDIMENTS, AND	CALCULATIONS OF SUPERSONIC FLOW FIELDS ABOUT SPHERICAL CAPPED BODIES - BLUNT BODY THEORY NASA-TH-X-50419 N63-21900 22-02
HOTION OF CONDUCTING & NONCONDUCTING SPHERES THROUGH A CONDUCTING LIQUID IN PRESENCE OF A NAGNETIC FIELD	TRANSIENT TEMPERATURE HISTORY WITH UNIFORM EMERGY GENERATION FOR PLATE, CYLINDER & SPHERE N63-22317 23-13
SPPER ATMOSPHERE DENSITY PROFILE FROM FALLING SPHERE DRAG MEASUREMENTS FCRL-62-1136 16-12	BOLTZMANN INTEGRO-DIFFERENTIAL EQUATION FOR HARD SPHERES PRESENTED AS PAIR OF LINEAR PARTIAL DIFFERENTIAL EQUATIONS OF FIRST 6 EIGHT ORDERS R63SD79
PARRICATION, EJECTION AND INFLATION TECHNIQUES FOR REFLECTIVE SPHERES OF VARYING AREA/MASS RATIO TO REASURE LONOSPHERIC DENSITY	SURFACE PROPERTIES OF PERTURBED SPHERE DETERMINED BY RADAR RETURN SIGNALS NASA-CR-51787 M63-22510 23-08
DETERMINATION OF FREE, TOROIDAL AND SPHEROIDAL STILL SELLATIONS OF GRAVITATING SOLID SPHERE	FIELD AMALYSIS BY INTEGRALS DEVELOPED & APPLIED TO VARIOUS TEST FIELDS PRESCRIBED OVER SURFACE OF A SPHERE N63-22873 23-12
NATHERATICAL ANALYSIS ASSUMING RADIAL SYMMETRY NASA-CR-50054 17-12	LOW-DENSITY SPHERE DRAG WITH EQUILIBRIUM AND HONEQUILIBRIUM WALL TEMPERATURES AT SUPERSONIC
PHERICO-SYMMETRICAL LAMINAR FLOW DIFFUSION 17-26	SPEEDS NASA-CR-52015 N63-23050 24-02
EGELECTRIC ANDMALIES OF RESISTANCE GENERATED BY PHERICAL BODY IN INFINITE HALF SPACE - SOLUTION OF GEDELECTRIC RESISTANCE BOUNDARY VALUE NOS-18766 17-12	PHOTOELASTIC ANALYSIS OF REINFORCED OPENINGS IN CYLINDRICAL, SPHERICAL, AND TORO-SPHERICAL SHELLS SUBJECTED TO INTERNAL PRESSURE NO3-23407 24-23
IGHT SCATTERING OF COLLOIDAL SPHERES - SIZE DISTRIBUTION CURVES BY TURBIDITY SPECTRA NS3-18642 18-07	INVISCID MAGNETOHYDRODYNAMIC FLOW HEAR STAGNATION POINT OF MAGNETIZED SPHENE
UPERSONIC WIND TUNNEL TESTS OF SPHERE DRAG HOSTA	DEVELOPMENT OF THE LUMAR TOPOGRAPHY INTO SPHERICAL

DEVELOPMENT OF THE LUMAR TOPOGRAPHY INTO SPHERICAL

HARMONICS AFCRL-63-744		24-29	TEMPERATURE DISTRIBUTION IN EXTERIOR REGION OF SPHERICAL CAVITY WITH CONSTANT SURFACE TEMPERATURE PIBAL-665
SPHERICAL SHELL DEFORMATIONS AND STABILITY OF S UNDER ACTION OF CONCENTRATED LO PRESSURE	PHERICAL SHE	ORM	MATERIAL EVALUATION FOR DESIGN OF SEGMENTED SPHERICAL PRESSURE VESSELS AND REINFORCEMENT RINGS N63-21068 21-34
SURI-TR-834/11/ NO. 4 SHELL STRUCTURE INSTABILITY - S	N63-10113	62	EXACT SOLUTION OF AXISYMMETRICAL BENDING EQUATIONS FOR THIN, SPHERICAL SHELLS EXPRESSED AS POWER
NASA-TN-D-1510 ASYMMETRIC BUCKLING OF CLAMPED	AT ANGLE DE A		SERIES NASA-CR-51259 35 37 47 47 4 7 10 10 10 10 22-23
SHELLS DE RATTA DE MAR MORT ESTADA	N63-10841	02-33	ABLATION CHARACTERISTICS OF THICK WALLED SPHERICAL SHELL CONSIDERING RADIAL HEAT FLOW
INFLUENCE OF NONSYMMETRICAL DEF BUCKLING OF SHALLOW SPHERICAL S		02-33	PIBAL-670 M63-22447 23-13 FREQUENCIES & ZERO DISPLACEMENT LINES FOR NORMAL
LARGE DEFLECTION THEORY FOR DET BUCKLING PRESSURE OF SPHERICAL	ERMINING THE		MODE VIBRATIONS OF SHALLOW SPHERICAL SHELLS BRL-1188 N63-22610 23-23
SIMILOTARHOO HE SOON HOLTANA	N63-10845	02-33	CYLINDER AND SPHERE WAKES AT SUPERSONIC SPEED
INSTABILITY OF SPHERICAL SHELLS EXTERNAL PRESSURE			JPL-TR-32-363 N63-13061 07-11 HONUNIFORM MAGNETOHYDRODYNAMIC SHOCK PROPAGATION
BUCKLING OF SPHERICAL SHELLS OF RADIUS-THICKNESS RATIO	EXTREMELY HI M63-10848		HITH REFERENCE TO CYLINDRICAL AND SPHERICAL SHOCK HAVES PRC-310 N63-14462 10-24
DEFORMATION AND STABILITY OF SP SUBJECTED TO ASYMMETRICAL LOAD!		LS MINULE	CYLINDRICAL AND SPHERICAL SHOCK WAVES IN MONATORIC
	N63-10849		CONDUCTING FLUIDS - NUMERICAL INTEGRATION MRC-299 N63-14474 10-11
CREEP BUCKLING OF SPHERICAL SHE	N63-10850	02-33	REFLECTION OF IMPULSIVE SPHERICAL WAVE AT PLANE INTERFACE BETWEEN TWO LIQUID ELASTIC MEDIA -
AXISYMMETRIC DYNAMIC BUCKLING O SPHERICAL SHELLS		ALLOW 02-33	SEISHIC WAVES N63-18758 17-12
DYNAMIC DEFORMATION AND BUCKLIN SHELLS UNDER BLAST AND IMPACT L	DADING		PROPAGATION OF SPHERICAL COMBUSTION WAVES - EFFECT OF VARIOUS DETOMABLE GAS MIXTURES AND IGNITION SYSTEM ENERGY
CARRIED AND TO STREET AND THE	N63-10852		ARL-63-101 N63-20910 21-26
NONLINEAR TRANSVERSE AXISYMMETR SHALLOW SPHERICAL SHELLS	N63-10853		SPHERICAL SHOCK WAYES IN SOLIDS - INFLUENCE OF CAVITY SIZE ON DUTER BOUNDARY
STABILITY OF THIN TORISPHERICAL UNIFORM INTERNAL PRESSURE	SHELLS UNDER N63-10856	02-33	SPHEROID 22-25
SPHERICAL SHELL FREE AND FORCED HARMONIC LOAD DISTRIBUTION	VIBRATION -	Y 1/235	FORCE ON PROLATE SPHEROID IN AXISYMMETRIC POYENTIAL FLOW - BODY OF REVOLUTION N63-13680 08-11
U-106-48	N63-14829	11-23	ASYMPTOTIC SOLUTION OF MACLAURIN SPHEROID
SPHERICAL SHELL UNDER POINT LOAD			STABILITY FOR SHALL KINEMATIC VISCOSITY -
SHOCK WAVE PROPAGATION IN SOLIDS TIME SCALE OF UNSTEADY MOTIONS			EXPANSIONS OF SPHEROIDAL WAVE FUNCTIONS
SPHERICAL SHELLS BY BLAST IN SHI			14-20 NOS-16390 NO NONCOTOR SPECE OF A COUNTY OF A COU
DEFORMATIONS AND STABILITY OF ST UNDER ECCENTRIC CONCENTRATED LOA			SPHEROIDAL VIGRATIONS OF EARTH AT LONG PERIODS - RIGIDITY OF EARTH CORE N63-17710 16-12
PRESSURE SURI-TR-834-6	N63-17061	15-33	DETERMINATION OF FREE, TOROIDAL AND SPHEROIDAL OSCILLATIONS OF GRAVITATING SOLID SPHERE -
AXISYMMETRIC DEFORMATION IN THIS	SPHERICAL S		MATHEMATICAL ANALYSIS ASSUMING RADIAL SYMMETRY NASA-CR-50654 MATHAGEN UMA 20 N63-18419 17-12
STRESS DISTRIBUTION AROUND HOLES SHELL MEMBRANE UNDER INTERNAL PR	IN SPHERICA	2-A3AM u	SPHEROIDAL METHOD FOR CALCULATING SATELLITE DABITS N63-20515 20-29
RE-163 MARKE CHUER INTERNAL PA		16-33	SPIKE-BLUFF BODY FOR MONORAIL ROCKET SLED - WIND
DEFORMATION AND STABILITY OF SPA			TUNNEL TESTS N63-10666 02-02
HYDROSTATIC BUCKLING PRESSURE CA	LCULATIONS F	OR	SPIN DYNAMICS CROSS RELAXATION IN HON-ZEEMAN SPIN SYSTEMS AND
NASA-CR-50600	N63-19856	19-33	UTILIZATION IN PARAMAGNETIC MICROWAVE MASERS
FROBENIUS SERIES APPROACH TO DET SPHEROIDAL OSCILLATIONS OF A GRA			ROTATING BODY VACUUM MOTION APPROXIMATION - RIGID
JPL-TR-32-430	N63-20257	20-23	SYMMETRICAL BODY WITH SPIN RATE AND INERTIA VARIANCES NASA-TR-R-115
BUCKLING STABILITY OF TORISPHERI	CAL SHELLS U	NDER	DISTRIBUTE ON THRULS, BY, THRALPITY, SPECTAS, STREET
AMNA-TR-63-06	M63-20376	20-33	ERROR ANALYSIS FOR ELECTRON DENSITY, SPIN DENSITY, AND ATORIC FORM FACTORS IN QUANTUM RECHANICAL CALCULATIONS 163-15848 13-23

TURE

0-11

1-34

2-23

ICAL

3-13 AL

3-23

-11

-24

MIC

-11

-12

ECT

-24

11

12

2

9

SPINNING, SPIN SA AUTOSPIN SA ELECTRON SPIN

INFLUENCE OF ELECTRON INTERACTIONS ON SPECIFIC HEAT AND PARAMAGNETIC SPIN SUSCEPTIBILITY OF ALKALI METALS N63-15907 13-25	CF ROTATION MASS UNBALANCE EFFECT ON MISS
QUANTUM MECHANICS - CALCULATION OF ISOMER RATIOS, PARTICLE EMISSION AND SPIN DISTRIBUTION IN TIN AND INDIUM N63-17733 16-29	TEAM-206 INERTIA SPHERI SPINNING SPACE
SPIN COMPONENT ANALYSIS OF SINGLE SLATER	NASA-TR-R-137
DETERMINANT WAVE FUNCTIONS ARL-63-129 M63-17964 16-23	SIMULATOR STU SPINNING BODY NASA-TN-D-151
COMPLETE SPIN TESTS FOR FERMIONS OF ARBITRARY SPIN LNF-63/61 N63-22968 23-23	LIQUID-FILLED CYLINDER
SPINNING PARTICLE HOTION IN TETRAD THEORY OF	BRL-TN-1473
GRAVITATION LNF-62/105 23-23	PARASTATISTIC FOR GENERAL F NYO-10241
SPIM-LATTICE RELAXATION PARAMAGNETIC RELAXATION FOR GROUND STATE - KRAMERS DOUBLET OF IRON IN DILUTE POTASSIUM FERRICYANIOE AF-99 N63-13422 08-25	SPIN OF SCALE OBSERVATION A NASA-TN-D-151
CROSS RELAXATION IN NON-ZEEMAN SPIN SYSTEMS AND UTILIZATION IN PARAMAGNETIC MICROMAVE MASERS AF-101 N63-14339 10-23	SPIN AND RECO AMERICAN X-15 NASA-TH-X-294
SPIN LATTICE RELAXATION OF A COPPER SALT CRYSTAL N63-17383 15-25	CORRELATION O
SPIN LATTICE RELAXATION OF F-CENTERS IN POTASSIUM	LNF-62-75
CHLORIDE AFCAL-63-147 N63-19898 19-25	IN-PLANE VIBR NASA-TH-0-521
NUCLEAR SPIN AND MAGNETIC MOMENT OF CADMIUM-115 - SPIN LATTICE RELAXATION FOR HELIUM-3 NUCLEI IN SOLIO HELIUM-3 - LASER SPECTROMETERS	TO A PRESCRIB
CU-6-63-SC-90789 N63-20033 19-23 SPIN ORBIT INTERACTION	ALTERNANT HOL STATES WITH D
GROUND STATE SPLITTING AND OPTICAL SPECTRA OF MANGANESE ION AND FERRIC ION IN CUBIC GRYSTALLINE FIELD WITH SPIN ORBIT COUPLING AFCRL-63-227 N63-13683 08-23	SPIN RELAXATI
BUTTE FACTOR OF CONCUMENTALISM, MILES FROM AND	RAC-1054
COMPARISON OF HARTREE-FOCK ORBITAL WITH FIRST NATURAL SPIN ORBITAL FOR TWO-ELECTRON SYSTEM WIS-TCI-12 N63-14924 11-23	SPIN. CHARGE.
PARTIAL SEPARATION OF VARIABLES APPLIED TO TWO P-ELECTRON CALCULATIONS — SPIN ORBIT, ANGULAR HOMENTUM, EMERGY TRANSFER, ATOMIC EXCITATION NASA-TT-F-152 M63-15238 11-23	DIRECTIONAL C FOR MAGNETIC ACTIONS - PAR TID-17089/PT.
PHASE SHIFT ANALYSIS OF PROTON-PROTON SCATTERING OF DIFFERENTIAL CROSS SECTION & SPIN-ORBIT FORCE RIFP-29 R63-20972 21-23	DIRECTIONAL C FOR MAGNETIC ACTIONS - PAR TID-17089/PT.
NATURAL SPIN ORBITALS OF ATOMS N63-22741 23-23	MODULATION OF BY MAGNETIC S
OFFICE AND STRUCTURE OF CATHODE SHINDING PRINCIPLE OF CERNINGHILL STRUCTURE OF CATHODE SHINDING PRINCIPLE OF CATHODE SHINDING PRINCIPLE OF CATHODE SHINDING PRINCIPLE OF CATHODE SHINDING PRINCIPLE OF CATHODE SHINDING SHI	MAGNUS EFFECT SPINNING FINN
SPIN-SPIN COUPLING RELATIVE SIGNS OF NUCLEAR MAGNETIC RESONANCE SPIN- SPIN COUPLING CONSTANT IN STYRENE OXIDE BY DOUBLE	BRL-1193 METHOD FOR DE
RESONANCE JPL-TR-32-310 N63-13275 07-07	PHYSICS LNF-63/31
SPINE STREET TO A THEM THE CASE OF A POST STREET AND THE SPINE SPINE STREET AND THE SPINE STR	SPINNING UNGUIDE
BIONECHANICAL PROBLEMS OF THE LUMBAR SPINE - HUMAN TOLERANCE, IMPACT, ACCELERATION STRESS, SPINAL FRACTURE M63-12048 07-16	SPINNING UNGUIDE SPINNING UNGU PROGRAM — SPA MEASUREMENT A AFSUC-TOR-63-
SPINEL SINGLE CRYSTALS - CRYSTAL GROWTH AND	SPIRAL MODEL-CON
STRUCTURE DEFECTS ASD-TDR-62-1086 16-18	ELECTRON FOCU IMAGE FORMATI
ELASTIC PROPERTIES OF POLYCRYSTALLINE MAGNESIUM-	TIS-ROZ-ETCZ
ALUMINATE SPINEL AS FUNCTION OF MICROSTRUCTURE AROD-2891-7 NAS-18749 17-25	SPLASH POINT ANALYSIS OF M

RELEVANT TO JON ROCKLY PROPURSTON

FRI -63-125

E IN A SIMPLIFIED AUTOSPIN SYSTEM -R FAM - DEFA WOT FELD AV. N63-10716 . 02-20 TO DAMP THE ANGULAR MOTIONS OF N63-10736 02-30 DY OF AN ACTIVE CONTROL SYSTEM FOR A N63-11122 03-30 IMPULSIVELY STARTED, SPINNING OMA MOST N63-11800 . 04-11 CONNECTION WITH SPIN AND TPC THEOREM 331721837 74844 N63-11865 - 04-23 MODEL UNSWEPT WING, THIN-ENGINE. N63-12243 05-04 PERY CHARACTERISTICS OF NORTH AIRCRAFT N63-12558 06-04 F HUON SPINS IN HUON PAIR
UNPOLARIZED PHOTONS N63-12573 06-23 ATIONS OF FLAT SPINNING DISK N63-12590 06-33 F TORQUE REQUIRED TO SPIN A MISSILE ED ROTATIONAL VELOCITY N63-13040 07-30 ECULAR ORBITAL METHOD APPLICABLE TO N63-13134 07-23 ON-TIME OF LIQUIDS IN WEAK MAGNETIC N63-13557 08-24 AND MASS OF BARYONS BY RELATIVISTIC M63-13770 08-20 ORRELATION ATTENUATION COEFFICIENT DIPOLE & ELECTRIC QUADRUPOLE INTER-T 1, INTERMEDIATE NUCLEAR STATE SPIN 1/ M3-14237 10-23 ORRELATION ATTEMUATION COEFFICIENT DIPOLE & ELECTRIC QUADRAPOLE INTER-T 2, INTERMEDIATE MUCLEAR STATE SPIN 11/ M83-14285 10-23 SPINNING COIL ELECTAONOTIVE FORCE IGNAL M63-15296 12-08 ON ACCURACY AND STABILITY OF N63-15941 13-02 TERMINING XI HYPERON SPIN - NUCLEAR N63-19627 D ROCKET TRAJECTORY /SPURT/ DIDED ROCKET TRAJECTORY /SPURT/ ICE VEHICLE CONTROL AND TRAJECTORY Y DIGITAL COMPUTER H63-16896 14-29 SING BY MONLINEAR SPIRALS - LENS -ON GEOMETRY FOR CATHODE RAY TUBES NAS-16107 13-09 SPLASH POINT
ANALYSIS OF MA-7 AND MA-8 FLIGHT RECOVERY ZONE SPLASH POINT, RETROROCRET YAW ANGLE AND ZONE OF
UNCERTAINTY

SPLEEN CF ANATORY CF BLOOD	MULTIDEGREE SPRING MASS SYSTEM - VIBRATION N63-16081 13-33		
CF BLOOD CF BONE MARROM TREATMENT OF RADIATION SICKNESS BY HOMO-	SPURT S SPINNING UNGUIDED ROCKET TRAJECTORY /SPURT/		
TRANSPLANTATION OF FRESH AND PRESERVED SPLEEN	SPUTNIK II SATELLITE		
PRANT PROTESTAL TO TAKE HAT SAZANST HE.	ORBIT CALCULATIONS OF SPUTNIK II SATELLITE RAE-TRANS-1016 N63-12030 05-29		
CF CONTROL SURFACE	SPUTNIK III SATELLITE		
JET DEFLECTION IN TWO-CIRCUIT ENGINES BY MEANS OF SPOILERS MGL PAPER-51 N63-10046 01-03	SOVIET ANALYSIS OF OBSERVATIONS OF SPUTNIK III DERIVATION OF ORBITAL ELEMENTS RAE-TRANS-998 N63-11917 04-08		
PRESSURE DISTRIBUTIONS AND AERODYNAMIC	SECULAR DECREASE IN INCLINATION OF SATELLITES		
CHARACTERISTICS OF SPOILER-TYPE CONTROLS ON TRAPEZOIDAL WING AT SUPERSONIC SPEED	FROM ORIGINAL ANGLE OF INCIDENCE SAD SPECIAL REPT112 N63-14268 10-29		
NACA-RM-L56E22 N63-12910 07-03 AERODYNAMIC CHARACTERISTICS OF VARIABLE-WING-SWEEP CONFIGURATION WITH SPOILER-SLOT-DEFLECTOR CONTROL	SPUTNIK IV SATELLITE REENTRY AND RECOVERY OF FRAGMENTS OF SPUTNIK IV SAO SPECIAL REPT109 N63-12119 05-05		
SYSTEM & SMEPT BACK DUTER WING PANELS NASA-TM-X-273 N63-17450 15-03	PRELIMINARY ORBITAL ELEMENTS OF SPUTNIK IV CABIN - VISUAL TRACKING		
SPORADIC E LAYER	RAE-TRANS-1025 N63-14336 10-08		
SPORADIC-E IONIZATION OBSERVED BY BACKSCATTER AFCRL-62-395 N63-10617 02-12	ORBITAL ELEMENTS OF SPUTNIK IV CABIN RAE-TRANS-1029 N63-15554 12-32		
AURORAL ZOME SATELLITE SCINTILLATION STUDIES AFCRL-62-1054 N63-13688 08-12 SPORADIC METEOR	SPUTNIK IV SATELLITE SYSTEMS ANALYSIS - LAUNCHING FACILITIES, AIR CONDITION AND TEMPERATURE CONTROL, RELIABILITY CONTROL, TELEMETRY AND COMMUNICATIONS		
ANNUAL VARIATION IN STRENGTHS OF HELION, APEX AND ANTIHELION SOURCES OF SPORADIC METEOR ACTIVITY	N63-18449 17-32		
NASA-CR-50416 N63-18401 17-05	SPUTHIK V SATELLITE SPUTNIK V SATELLITE BIOLOGICAL INVESTIGATIONS -		
CF BACTERIA	EFFECT OF SPACE FLIGHT ON DOGS N63-18447 17-16		
THEAMOLUMINESCENCE SPECTRA AND ACTIVATION EMERGIES FOR AROMATIC AMINO ACIDS, TRYPSIN, AND SPORES OF BACILLUS MEGATERIUM ORNL-3115 N63-17442 15-16	SPUTNIK V SATELLITE SYSTEMS ANALYSIS - LAUNCHING, ORBITING, DESCENT TRAJECTORY, FLIGHT CONTROL AND COMMUNICATIONS No3-18450 17-32		
	SPUTNIK VIII SATELLITE		
ULTRAHIGH VACUUM AND TEMPERATURE EFFECTS ON VIABILITY OF SPORE AND SOIL ORGANISMS No3-19474 19-16	SPUTNIK VIII SATELLITE - SOVIET LUNAR FLIGHT N63-18439 17-32		
VIABILITY OF SPORES SUBJECTED TO ULTRAHIGH VACUUM, GANNA RADIATION, AND ELEVATED TEMPERATURES NASA-CR-51102 N63-21109 21-16	SPUTTERING CF INSTABILITY SPUTTERING YIELDS FOR METALS UNDER NOBLE GAS IGN BUMBARDMENT N63-10764 02-24		
SPRAY CF DROP CF LIQUID TERMINAL BALLISTICS - IMPACT AND EFFECT OF	EFFECTS OF ION-INDUCED DEFECTS ON SURFACE REACTIONS - SPUTTERING OF COMPOUNDS AND ALLOYS S-472 N63-11784 04-25		
ULTRAHIGH SPEED MICRON-SIZE PARTICLES APGC-TDR-62-69 N63-11028 03-23	HEHISPHERICAL EMITTANCE OF METALLIC SPECIMENS DUE TO SPUTTERING WITH HYDROGEN IONS		
SPRAYING SA METAL SPRAYING	NASA-TN-0-1646 N63-12214 05-23		
SA PLASMA SPRAYING TECHNIQUES TO COAT BIMETAL JOINT USING METAL	SPUTTERING OF COPPER BY NITROGEN IONS AS FUNCTION OF PRESSURE AND TEMPERATURE N63-12261 05-18		
FLAME-SPRAY METHOD TO PREVENT GALVANIC CORROSION RIA-63-1419 N63-18283 17-17	OPTICS AND STRUCTURE OF CATHODE SPUTTERED LAYERS WITH SPECIAL REFERENCE TO REACTION WITH RESIDUAL		
SPRAYING APPARATUS LAUTERBACH AND DAUTREBANDE AEROSOL GENERATURS IN STUDIES OF INHALATION TOXICITY — PARTICLE SIZE	GAS TIL/T-5202 N63-12721 06-23		
DISTRIBUTION N63-14665 10-16	SPUTTERING EFFECTS ON LUNAR SURFACE - SOLAR WIND AND MICROMETEORITES N63-15805 13-29		
SPRAYING APPARATUS FOR RIGID POLYURETHANE FOAM N63-20318 20-19	LUNAR SURFACE HIGH FREQUENCY SPUTTERING YIELD RELATED TO ION BOMBARDMENT DATA FOR POWDERED ROCK MASA-CR-50229 N63-17204 15-07		
SPREAD-F RADIO STAR SCINTILLATIONS AND SPREAD-F ECHOES OVER SOLAR CYCLE — OBSERVATIONS OF CASSIOPEIA A No.3-19098 18-05	FILM THICKNESS EFFECT ON SPUTTERING RATIO OF METAL FILMS - ELECTRON BOMBARDMENT OF SILICA NASA-CR-50531 N63-18414 17-28		
SPRING SPRINGS OF WIDE TEMPERATURE RANGE ASD-TR-61-566 N63-10743 02-18	EFFECTS OF ION-INDUCED DEFECTS ON SURFACE REACTIONS - SPUTTERING & ADSORPTION OF GALLIUM		
USE OF SPRING-MASS TO APPROXIMATE BAR-MASS SYSTEM SUBJECTED TO RECTANGULAR-FORCE PULSE BALLISTICS RES. REPT76 N63-14176 09-33	IMPACT OF HIGH ENERGY IONS UPON SOLID SURFACES RELEVANT TO ION ROCKET PROPULSION - SPUTTERING		
SEMERALIZED RESPONSE EVALUATION PROCEDURE POR	YIELD RATES ARL-63-125 N63-20912 21-27		

-33

-29

-08

-29

-05 N --08

iG iL, iS

16

32

32

24

25

23

9

7

SPUTTERING IMPURE SILICON DIOXIDE FILM ONTO GALLIUM ARSENIDE WAFERS AND DIFFUSION IN FLOWING HYDROGEN ATMOSPHERE - TRANSISTOR DEVELOPMENT TI-08-63-62 23-09	SQUID PROJECT - VISCOSITY OF ANNONIA-ARGON MIXTURES BRN-6-P R63-19046 18-11 THERROCONDUCTIVITY OF STEAM UNDER PRESSURE -
SQUALL LINE SYMOPTIC STUDY OF MESOSCALE INSTABILITY LINES ASSOCIATED MITH SEVERE LOCAL STORMS ASIC-37 N63-19756 19-21	THERMOCONDUCTIVITY OF STEAM UNDER PRESSURE - SQUID PROJECT MIT-32-P N63-19167 18-13 REACTIONS OF GASEOUS IONS - HIGH PRESSURE MASS
SQUARE CF LEAST SQUARES METHOD THE CHARLES AND	SPECTROMETRIC STUDY OF METHANE IN SQUID PROJECT HUM-2-P N69-19305 18-07
SQUIB CF EXPLOSIVE DEVICE RADIO FREQUENCY ENERGY FIRINGS ON BRIDGEWIRE SQUIBS FOR MISSILE RADAR SYSTEMS	TRANSITION FAON SURFACE- TO DIFFUSION-CONTROLLED PROCESS DURING HYDROGEN-ATON RECOMBINATION - SQUID PROJECT SRI-TR-17-P - SAME AND A STATE AND A SQUID M63-19340 - 18-11
RK-TR-63-1 N63-12956 07-26 ALGOL SOLID ROCKET ENGINE DEVELOPMENT - IGNITER SQUIB TEST PROGRAM NASA-CR-50629 N63-16205 16-27	INTERNAL FRICTION OF SMALL DIAMETER QUARTZ WIRES FOR USE IN OSCILLATING DISK GAS VISCOSITY MEASUREMENT - SQUID PROJECT BRN-7-P N63-19929 19-25
SYNCOM I IGNITER SQUIB NASA-CR-50779 M63-19787 19-26	ION REACTIONS AT LOW ELECTRON ENERGY - HYDROGEN, DEUTERIUM, AND METHANE - SQUID PROJECT HUM-3-P N63-20549 20-07
SQUID PROJECT VISCOSITY OF NITROGEN, HELIUM, NEON, AND ARGON AT LOW TEMPERATURES AND HIGH PRESSURES 8RN-3-P	PROJECT SQUID FLUID MECHANICS, CHEMICAL KINETICS, TRANSPORT AND TRANSFER PROCESSES, AND COMBUSTION PHENOMENA RESEARCH N63-23119 24-23
BRN-3-P 122 A 50 22M040MU10 N63-11774 04-23 MAGNETOHYDRODYNAMIC POWER GENERATOR MIT-29-B 12M2 M1014 23AM 90 M013 N63-12302 V 05-27	TRANSPORT & STRUCTURAL PROPERTIES OF MATERIALS, PHYSICAL PROCESSES, CHEMICAL KINETICS, COMBUSTION ANALYSES, & PROPULSION SYSTEMS — SQUID PROJECT UVA-3-R
STEADY-STATE FLUX OF MASS & EMERGY AT SOLID CATALYTIC SURFACE DUE TO HETEROGENEOUS RECOMBINATION OF HYDROGEN ATOMS - SQUID PROJECT SRI-14-P - ALASTIN - SQUID PROJECT SRI-14-P - SALASTIN - SQUID PROJECT SRI-14-P - SALASTIN - SQUID PROJECT	SQUIRREL IN VITRO D-GLUCOSE ABSORPTION BY INTESTINAL SEGMENTS FROM ACTIVE AND HIBERNATING, IRRADIATED
ENERGY AND MOMENTUM EXCHANGE BETWEEN NON- EQUIPARTITION GASES ARAP-S-P 2 22 27 3 3 2 2 1 2 2 1 1 2 2 1 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1	AND MONIRRADIATED GROUND SQUIRRELS M63-11002 03-16 CHANGES IN INTESTINAL BACTERIA OF GROUND SQUIRRELS
MASS SPECTROMETRIC STUDY OF HOMONUCLEAR AND HETERONUCLEAR RARE GAS MOLECULE ION N63-13917 09-07	DURING HIBERNATION AAL-TDR-62-55 PHARMACOLOGICAL EFFECT OF INFUSED DRUGS ON
DISTRIBUTION OF CONCENTRATION, MASS FLOW AND VELOCITY OF SOLID PARTICLES /MAGNESIUM DXIDE AND GLASS/	AUTONOMIC CONTROL OF CIRCULATION DURING HIBERNATION OF GROUND SQUIRRELS - ANIMAL STUDY AAL-TDR-62-39 N63-18677 17-16
STEADY STATE IN COMPETITIVE-CONSECUTIVE GAS REACTION - CHEMICAL KINETICS	EFFECT OF HIBERNATION ON RETENTION OF VIRAL AGENTS BY ARCTIC GROUND SQUIRRELS AAL-TDR-62-59 N63-21682 22-16
PSU-10-P N63-13919 09-07 ENERGY EXCHANGE IN RELATION TO JET PROPULSION -	STABILITY SA AERODYNAMIC STABILITY SA COMBUSTION STABILITY
LOW-PRESSURE HEAT TRANSFER BETWEEN GASES & SOLID SURFACE - SQUID PROJECT SAI-15-P N63-13920 09-23	SA DYNAMIC STABILITY SA ELASTIC STABILITY SA FLOW STABILITY
NONSTEADY AND NONEQUILIBRIUM TWO-PHASE FLOW PROBLEM - GAS CARRIER AND SMALL PARTICLES - SQUID PROJECT - N63-15350 12-01	SA LONGITUDINAL STABILITY SA LON SPEED STABILITY SA PLASMA STABILITY
HIGH INTENSITY MOLECULAR BEAM APPARATUS - SQUID PROJECT PR-103-P AMATEM SQUITTY N63-15520 12-11	SA SHELL STABILITY SA STATIC STABILITY SA STORAGE STABILITY SA TORAGE STABILITY SA THERMOSTABILITY
THERMOELECTRICITY - IONIZATION OF SOLID PARTICLES AND ELECTROM CLOUD DISTRIBUTION ILL-10-P N63-16349 14-11	CF INSTABILITY STABILITY OF SAMPLING-TYPE CONTROL CIRCUITS WGL PAPER-38 N63-10034 01-22
THERMAL ELECTRIFICATION OF GAS-SOLID SYSTEM -	NORMAL MODES OF MONLINEAR COUPLED SHIP MOTIONS AND THEIR STABILITY IER SER. 173, ISSUE 5 MA3-10167 01-11
HIGH INTENSITY MOLECULAR BEAMS USING SUPERSONIC FLOW - SQUID PROJECT	STABILITY OF FILM BOILING TWO-PHASE FLOW IN CRYOGENIC SYSTEMS WASHINGTON THE MESTAGE OF 27 MESTAGE 02-23
PR-104-P N63-17512 16-11 SQUID PROJECT - THERMOCONDUCTIVITY OF NITROGEN AND ARGON	THEORY OF ELASTIC STABILITY AND POSTBUCKLING, TENSOR ANALYSIS C11-00 THEORY OF THE PROPERTY OF
MIT-34-Par OD A VERLENATZ DE HERMAN NOS-18984 DE 13	STABILITY PROBLEMS IN MISSILE STRUCTURES N63-10806 02-34

CESSUM COATED TUNGSTEN ELECTRODES, SURFACE STABILITY, EVAPORATION RATES, VOLTAGE BREAKDOWN MAS-10999 02-23

KINETIC HODEL FOR GASES WITH INTERNAL DEGREES OF FREEDOM - SQUID PROJECT ARAP-9-P N63-19042 18-11

CHEST STABILITY OF LIQUID LAYERS

EFFECTS OF GEOMETRY AND UNIDIRECTIONAL BODY FORCES ON STABILITY OF LIQUID LAYERS

					130	
AEROTHERMOELASTICITY SYMPOSIUM, ASD-TR-61-645	1961 N63-11058		AFCRL-62-779	N63-14059	99-21	
STABILITY OF VISCOUS FLOW BETWEE		101	HYDROMAGNETIC STABILITY AT FLUID DISCONTINUITY	VELOCITY- N63-14258	10-11	
CYLINDERS - PRESSURE GRADIENTS	N63-11298	ATTITUDE STABILITY OF GRAVITY-ORI SATELLITE SYSTEMS - PART 11, THEO	BILITY OF GRAVITY-ORIENTED COMPOUND STEMS - PART 11, THEORY AND NOTION IN			
SURFACE-PIERCING HYDROFOIL STABI BY FREE OSCILLATION TECHNIQUE			ORBITAL PLANE	N63-14355	120 150	
STABILITY OF AXISYMMETRICAL WAKE	N63-11312 03-11 STABILITY BEHAVIOR OF THIN-WA BILITY OF AXISYMMETRICAL WAKES OF BINARY UNDER AXIAL LOAD AND INTERNAL				ELLS	
MIXTURE OF COMPRESSIBLE FLUIDS R62SD79	N63-11795	04-11	DVL-243	H63-14409	10-02	
STABILITY IN GLASS HODEL STEAM G	SENERATOR - 1 N63-11938	FLOW 04-23	CYLINDER-SPHERE DRAG AND STABILIT COUETTE FLOW MIT FLUID DYN. RES. LAB63-1	THE REAL PLANS	128	
GROUND EFFECT MACHINES - CONTROLLED FLOW PHENOMENA AND STABILITY			LINEAR POLYMERS CONTAINING ALUM	N63-14410	70.00	
TCREC-TR-62-46	N63-12002	05-02	STEROIDS, STABILITY	N63-14470		
STABILITY OF COMPRESSIBLE LAMINA	EXISTENCE AND STABILITY OF DIFFER SYSTEMS - GENERALIZATION OF LIAPU	ENCE-DIFFER				
USE OF MATHEMATICAL MODEL TO DET MONLINEAR YAM-INDUCED ROLLING AN STABILITY OF A BOMB			MRC-300 LIAPUNDV METHOD EXTENDED TO SOME	N63-14473 DIFFERENTIA		
SAD-102	N63-12607		EQUATIONS IN BANACH SPACES - NORM STABILITY, AND BOUNDEDNESS OF A S	S, EXISTENC	E AND	
EFFECT OF GROSS LOAD AND BOW MOD HYDRODYNAMIC CHARACTERISTICS OF LAYING SEAPLAME			MRC-315 ASYMPTOTIC SOLUTION OF MACLAURIN	N63-14508 SPHEROID	10-20	
NASA-TH-X-71	N63-12953	07-04	STABILITY FOR SMALL KINEHATIC VIS	COSITY -	12	
VERTICAL POSITION OF CENTER OF G ROLL STABILITY OF ANNULAR JET GR MACHINE			MRC-373 V/STOL AIRCRAFT HANDLING CRITERIA	N63-14594		
TCREC-TR-62-101	N63-12994	07-04	LOW-SPEED AND TRANSITION FLIGHT -	CONTROL RE		
FADING CORRELATION BANDWIDTH AND FREQUENCY STABILITY ON HIGH-FREQ TRANSAURORAL PATH NBS-TN-165		07-08	THERMODYNAMICS OF SOLID SOLUTIONS & INTERMETALLIC COMPOUNDS DEFINING FREE ENERGY - STABILITY DETERMINATION			
ROOTS OF REAL POLYNOMIAL INSIDE	UNIT CIRCLE		ASD-TR-61-445, PT. 11	LI FLISHTIN		
AND STABILITY CRITERION FOR LINE SYSTEMS AFOSR-2443	N63-13165	07-20	THERMOCONDUCTIVITY ON HYDROMAGNET MATT-143		Y	
STABILITY OF ROTATING CYLINDRICAL	E	67-11	STABLE BETA TITANIUM ALLOY - STAB STRENGTH, AMENABILITY ROLL FORMIN	G TEST PERF	ORMED	
THEORY OF STABILITY OF MOTION -	N63-13196 LIAPUNDV THE	07-11 ORY	WAL-TR-405/2 STABILITY OF MAGNESIUM-LITHIUM BA	N63-15073 SE ALLOY AT		
AEC-TR-3352 STABILITY OF RELATIVISTIC PARTIC	M63-13212	07-23	TEMPERATURES DURING TRANSITION PH	ASE	12-18	
THROUGH PLASMA	M63-13668	08-24	STABILITY AMALYSIS OF SKID-ROCKET SPACECRAFT MASA-TN-D-1625	LANDINGS O	F 12-90	
LOW VISCOSITY BEARING STABILITY TURBOHACHINERY AND SPACE POWER ST		08-17	APPLICATION OF BOOLEAN ALGEBRAIC FUNCTIONAL STATES AND STABILITY D	MATRICES TO	2901 S	
STABILITY OF RIGID ROTOR SYSTEMS RAE-TRANS-1020	FOR HELICOP N63-13702		STABILIZATION AND CONTROL SYSTEM	AT IN DUE BELLIN	11/	
MOZZLE WIDTH AND HOVERING STABILI	ITY OF GROUN	10	SERVICE TO A TURNED DOS HOST TRESHAMETURE MADE	N63-15533	12-32	
DTM8-AERO-1047	N63-13703		STABILITY ANALYSIS OF CYLINDRICAL BEARINGS OF FINITE LENGTH USING G	ALERKIN HET	HOD	
QUALITATIVE SOLUTION OF STABILITY BOUNDARY LAYER IN CONTACT WITH VA FLEXIBLE SURFACE	ARIOUS FORMS	OF	PLASTIC STABILITY OF GEOMETRICALL	N63-15785 Y ORTHOTROP	13-17 1C	
ARC-CP-622	N63-13847	09-11	PLATES AND CYLINDRICAL SHELLS	H63-15795	13-33	
WIND TUNNEL TESTS TO IMPROVE STAT STABILITY OF UNSWEPT-WING AIRCRAF NASA-MEMO-10-4-58A		.8-2.2	UNDAMPED WAVES IN COLLISIONLESS, NATURE OF STABLE, SMALL AMPLITUDE WAVES			
HYDRODYNAMIC STABILITY AND CAVITY DISCONTINUOUS VELOCITY PROFILE AT			AFCRL-63-259	MODELLE SERVICE	13-24	
CAVITY OPENING MIT-DSR-8951	N63-14041	09-11	THEORY OF HYDRODYNAMIC STABILITY DIMENSIONAL AND AXISYMMETRIC PARA DVL-190			
CONCEPTUAL SIMILARITIES & DIFFERS	ENCES BETWEE	N THE	PAC-140	3-10175	13-11	

CONCEPTUAL SIMILARITIES & DIFFERENCES BETWEEN THE THREE TERMS TO COORDINATE PARALLEL DEVELOPMENTS - PHYSICS, ENGINEERING, MATHEMATICS

10-21 10-11 NAME ION IN 10-36 ELLS 10-02 INEAR 10-07 ENTIAL

10-28 AND

10-20

10-11

LLIC 11-19 140 11-24 .E. JED 11-18 11GH

2-30

2-20

2-32

-17

-33 A 6 -24

-11

SUDAER-150		14-11	NUCLEAR MEAPONS EFFECT ON HARDENED STRUCTURES RTD-TDR-63-3023 N63-22126 22-23
GEOMETRICAL OPTICS OF MULTIREFLECT RESUMATORS - CONDITIONS FOR STABLE OPTICAL MASERS AND LASERS AFCRI-63-115	OR OPTICAL OPERATION 163-16686	14-23	HIGH PRESSURE & TEMPERATURE REACTIONS - STABILITY AND PHASE RELATIONS IN ONE-COMPONENT SYSTEMS AFCRL-63-354 29-11
STABILITY OF LAMINAR BOUNDARY LAYER HOLTR-62-143	R PROFILES	14-11	STABLE BETA-TITANIUM ALLOY - METAL ADDITIONS TO BASE ALLOYS MAL-TR-405/2-2 M63-22722 23-18
REENTRY STABILITY AND TRAJECTORY A CONICAL VEHICLE CA-4291-0065	MALYSIS FOI 163-16937		FLEXIBLE WINGS RED - STABILITY & CONTROL OF PARA- GLIDERS AS DECELERATORS FOR SPACECRAFT RECOVERY
TRANSITION REVERSAL - EFFECT OF SU TEMPERATURE ON LAMINAR BOUNDARY LA AND TRANSITION	YER STABIL	17Y 15-11	H63-23919 24-03 STABILITY ANALYSIS OF LITTLE JOE 11 DC-12-011 N63-23770 24-04
HELICOPTER INSTRUMENT FLIGHT RULE STABILITY AND TRIM TRECOM-TR-63-18	CAPABILITY	16-04	STABILITY AND CONTROL AXIONATIC THEORY OF CONTROL SYSTEMS N63-10166 01-20
CONTROL AND STABILITY OF LINEAR AND DATA PROCESSING SYSTEMS	NO MONLINEA	NASA MACA	PILOTS ABILITY TO CONTROL DURING STHULATED STABILITY AUGMENTER FAILURES
STABILITY OF A TWENTY-FOUR HOUR SA	163-17505 TELLITE 163-17547	16-08	NASA-TN-D-1552 MA3-10101 01-14 DYNAMIC STABILITY AND CONTROL RESPONSE DESIRED FOR V/STOL AIRCRAFT NA3-10198 01-04
SYNTHESIS OF LINEAR AND NONLINEAR BY LIAPUNOV STABILITY THEORY	CONTROL SY	STEMS	ENERGY OF SELF-OSCILLATION USED TO DETERMINE THE STABILITY AND CONTROL SYSTEM
EFFECTS OF ROTATION ON STABILITY C BOUNDARY LAYERS AROUND CURVED WALL	N. PHUTHWW	16-20 HALDY-04 HRIDW	TWO-PARAMETER CONTROL, STABILITY FTO-TY-62-784/162 N63-10355 01-09
AEROELASTICITY - WIND TUNNEL TEST			CYBERNETICS AND CONTROL THEORY JPRS-16903 N69-10691 02-20
MEASURING OSCILLATORY DERIVATIVES MODELS - STABILITY AND FLUTTER	63-17820	16-33	EFFECT OF FINS ON STABILITY OF BODIES OF REVOLUTION WITH TANGENT OGIVES AT SHALL ANGLES OF ATTACK, MACH O TO 3.5
	163-17854	16-17	ADMC-RF-TR-62-1, REV. N63-10715 02-02 RATE AND MECHANISM OF PYROLYSIS OF POLYBERZYL
WIND TUNNEL INVESTIGATION OF STATE ROTARY STABILITY DERIVATIVES OF FU HASA-TH-X-361		6 800Y	HOLTR-62-59 N63-10093 02-07 HONLINEAR HYPERSONIC THERMDELASTIC STABILITY AND CONTROL DERIVATIVES N63-11040 03-13
DIRECTIONAL CHARACTERISTICS AND IN OF TWO-ELEMENT YAGI ANTENNA IN PAR REGION - THEORY AND EXPERIMENT AFCAL-03-107	PUT IMPEDAT	NCE E 16-08	THE X-15 FLIGHT CONTROL AND STABILITY SYSTEM NASA-TN-D-1402 03-04
STABILITY OF PROPANE-OXYGEN FLAMES	OM SEMESTER	17-26	AERODYNAMIC CHARACTERISTICS OF FOUR DUCT TAMBEN VTOL AIRCRAFT CONFIGURATIONS NASA-TIN-D-1481 N63-11846 04-02
STRUCTURE AND STABILITY OF SQUARE STEADY DETONATION - HYDRODYNAMIC		0F 17-20	TETHERED TESTS AND LOW-SPEED FREE FLIGHT TESTS OF GROUND EFFECT MACHINE DYMM-III DYMB-R-1700 M63-12471 06-04
SCALING LAWS IN STABILITY OF FLAME			EFFECTS OF WING VERTICAL LOCATION ON STABILITY AND CONTROL OF CAMARD AIRCRAFT AT SUPERSONIC SPEEDS NASA-TH-X-44 N63-12951 04-02
THERMAL CONVECTION - FLUCTUATIONS TEMPERATURE AND LIMEAR STABILITY (SURFACES MASA-TM-X-50227	F HORIZONT		STATIC STABILITY AND CONTROL CHARACTERISTICS OF AIRCRAFT MODEL WITH TAIL SURFACES DUTBOARD OF WING TIPS
EXPRESSING STATIC AND DYNAMIC UNBA FOR SPACECRAFT PAYLOADS	NLANCE 163-20247	20-33	SPIN AND RECOVERY CHARACTERISTICS OF MORTH AMERICAN X-15 AIRCRAFT
V/TOL AIRCRAFT FLIGHT TEST WITH UP PROPELLERS - STATIC & DYMANIC STAN HOVERING & FLYING	SILITY DURI	586504	NASA-TH-X-294 NASA-12550 06-04 STADILITY AND CONTROL TESTING OF MODEL AD-LAF AIRCRAFT NASA-12590 06-04
MAGNETIC PROPERTIES OF THULIUM - E TEMPERATURE ON STRUCTURAL STABILITY		20-04	EFFECT OF VARIATIONS OF BENDING NODE SHAPE UPOM CLOSED-LOOP FEEDBACK CONTROL STABILITY OF ELASTIC, WINGED BOOSTER ASRRCM-TW-82-11 M69-12683 06-30
INCREASING THE STABILITY OF SERIES DC POWER SUPPLY EMPLOYING CASCODE ARL/1-62	SHUNT AMPL		V/STOL AIRCRAFT - VERTICAL PLIGHT, HOVERING, STABILITY AND CONTROL SYSTEMS AGARD-408 No3-13660 08-04
RADIATION STABILITY OF URANIUM HON	NONITRIDE	22-23	LONGITUDINAL STABILITY & CONTROL OF STEDEL PH-MLL AIRCRAFT IN GLIDING & POWERED FLIGHT

ANALYSIS OF DELTA-WING HYPERSONIC STABI CONTROL AT ANGLES OF ATTACK BETWEEN 30 90 DEG	DEG AND	DIHEDRAL EFFECT ON LATERAL STABILITY AND CONTROL OF F-27 AIRCRAFT N63-16593 14-
NASA-TN-D-1602 11 N63-13		DELTA WING PLANFORM TESTS IN HYPERSONIC WIND TUNNEL - LONGITUDINAL STABILITY AND CONTROL
SUBSONIC AND SUPERSONIC WIND TUNNEL STU ASPECT RATIO SWEPTBACK WING TAILLESS FI AIRCRAFT HODEL/STABILITY AND CONTROL MARCA-DH-A52 120	IGHTER	NASA-TM-X-240 N63-17255 15- SATELLITE ORIENTATION - STABILITY AND CONTROL
ACA-RM-A52J30 N63-13 LIGHT-DETERMINED STABILITY & CONTROL D E SUBERSONIC ATROPAGE UTTAL DU ASPECT	DERIVATIVES	NASA-TN-D-1771 N63-17504 16- DYNAMIC TESTING OF ORBITING ASTRONOMICAL OBSERVATORY
OF SUPERSONIC AIRCRAFT WITH LOW ASPECT INSWEPT WING & T-TAIL IASA-NEMO-2-2-59H N63-13		AIAA PAPER-63-176 N63-17922 16-
REE FLYING 1/3-SCALE MODEL OF A LIFTIM CONFIGURATION AND LOW SUBSCORIC STABILIT	NG REENTRY	STABILITY & CONTROL OF AIRCRAFT - AERODYNAMIC LOADING NACA-RM-L57018A N63-18041 16-
ONTROL CHARACTERISTICS IASA-TM-X-297 N63-13	3900 09-32	STATIC STABILITY AND CONTROL OF HYPERSONIC GLID NACA-RM-L58E12A N63-18044 16
TATIC LONGITUDINAL STABILITY AND CONTR HARACTERISTICS OF AIR-TO-SURFACE CANAR ONFIGURATION IN TRANSOMIC RANGE HASA-TH-X-305 M63-13	RD MISSILE	DYNAMIC LATERAL STABILITY AND CONTROL OF HIGH PERFORMANCE HYPERSONIC AIRCRAFT NACA-RM-L58216 N63-18046 16-
ERODYNAMIC AND CONTROL STUDIES OF LIFT ONFIGURATIONS AT ANGLES OF ATTACK UP T UPERSONIC SPEEDS	TING REENTRY	TRAJECTORY SIMULATION FOR STABILITY AND CONTROL STUDIES OF MULTIENGINE BOOSTERS NASA-TN-0-1838 N63-19734 19
ASA-TH-X-338 N63-13		WIND TUNNEL STABILITY AND CONTROL TESTS OF
TATIC STABILITY AND CONTROL CHARACTERI ANNED LENTICULAR REENTRY CONFIGURATION UBSONIC SPEEDS	N AT LOW	FLEXIBLE WING MANNED AIRCRAFT - PARAMING NASA-TN-D-1946 N63-19736 19
ASA-TH-X-431 N63-13		FLIGHT MECHANICS - STABILITY AND CONTROL MGLR-2/1963 N63-20151 20
UCLEAR REACTOR KINETICS, STABILITY AND IBLIOGRAPHY AA-SR-7786 N63-14	0 CONTROL -	DYNAMIC LONGITUDINAL STABILITY OF AIRCRAFT WITH FUSELAGE CONTROLS N63-20152 20
TABILITY & CONTROL OF X-15 AIRCRAFT SC	Southern management	FLIGHT CONTROL FOR RESETTING - STABILITY AND
40 1102-848 YES A JAMES	10-04	NONLINEAR PROBLEMS OF FLIGHT CONTROL - STABILIT
OW SUBSONIC STABILITY AND CONTROL OF A REE FLYING MODEL OF A HALF COME REENTR ASA-TM-X-665 N63-14		AND CONTROL N63-20154 20 FIRST ORDER DECELERATION OF CONTROL SYSTEM ON
ESEARCH ON VTOL AIRCRAFT STABILITY AND EAFORMANCE DURING HOVERING, LOW SPEED, ANDING N63-14	AND	LONGITUDINAL STABILITY OF AIRCRAFT N63-20155 20 MOTION CALCULATIONS FOR FLYING BODIES WITH SIMP
/STOL AIRCRAFT HANDLING AND CONTROL CR ONGITUDINAL, LATERAL, DIRECTIONAL STAB ONTROL IN TRANSITION N63-14	RITERIA - BILITY AND	CONTROLS AND DIFFERENT RESTORATION MECHANISMS - STABILITY AND CONTROL N63-20156 20 LONGITUDINAL MOTION OF AIRCRAFT AND POSSIBILITY
TABILITY AND CONTROL OF FLAT SURFACE W	ING-	REDUCTION IN ACTION - STABILITY AND CONTROL N63-20157 20
USELAGE COMBINATION AT SUBSONIC SPEED ING LEADING EDGE SWEEPBACK ASA-MEMO-3-5-59A N63-14		MATHEMATICAL OPERATIONS OF FLIGHT CONTROLS - STABILITY AND CONTROL N63-20158 20
TABILITY AND CONTROL STUDY USING DYNAM	HIC FLIGHT	STABILITY CHARACTERISTICS WITH OR WITHOUT FLIGH REGULATORS - LONGITUDINAL HOTION
OW ALTITUDE A-62H-397 N63-15	5046 11-04	OFL-210 N63-20261 20 EFFECT OF MONLINEAR STATIC COUPLING ON MOTION
NGINEERING DESIGN OF ADVANCED ORBITING SSERVATORY SATELLITES - STABILIZATION JN TRACKER INSTRUMENTATION N63-15		STABILITY OF A SHIP MOVING IN OBLIQUE WAYES NA-63-3
NGINEERING DESIGN OF ORBITING ASTRONOM SERVATORY SATELLITES - OPTICAL SYSTEM INTROL, ORIENTATION AND STABILIZATION	HICAL HS, THERMAL	LOW-SPEED LONGITUDINAL STATIC STABILITY & CONTR CHARACTERISTICS OF AIRCRAFT WITH SWEPT WINGS & Tall Surfaces Outboard of Wing TIPS NASA-MEMD-6-11-59L N63-20484 20
M63-15 MULATOR STUDY OF LATERAL-DIRECTIONAL MULATOR STUDY OF LATERAL-DIRECTIONAL MALITIES OF PROPELLER STOL TRANSPORT A	5172 11-32 HANDLING AIRPLANE	LONGITUDINAL AERODYNAMIC CHARACTERISTICS OF BLU LIFTING REENTRY VEHICLE AT MACH 0.92 NASA-TN-X-571 N63-20541 20
SA-TN-D-1773 N63-15 ABILIZATION AND CONTROL SYSTEM FOR HA	-000-E-10-VOV-U	STABILITY AND CONTROL OF AIRCRAFT AVA-61-04 H63-20842 21
MAR VEHICLE - ATTITUDE CONTROL N63-15	5533 12-32	PROBLEMS OF FLIGHT CHARACTERISTICS FROM AIRCRAF DESIGNERS VIEWPOINT - STABILITY AND CONTROL
ABILITY ANALYSIS OF CONTROL SYSTEM OF OPELLED MISSILES	1547 12-30	N63-20843 21 EFFECT OF STABILITY AND CONTROL ON FLIGHT
ABILITY AND CONTROL OF SUPERSONIC VTO DEL HAVING BROAD FUSELAGE AND SHALL D	DELTA WING	CHARACTERISTICS N63-20844 21
SA-TH-X-441 (HEE) 0183404 1, 5, 1 N63-16	6140 13-04	AERODYNAMIC STABILITY DERIVATIVES - STABILITY A CONTROL N63-20845 21

5-02

6-32

6-30

6-03

SEE C

-29

-04

-04

04 0F

04

11

02

r,

M

á

HIGH LIFT & HIGH SPEED CHARACTERISTICS OF N63-20846 21-04 OBSERVATIONS ON FLIGHT CONTROL, UNSTABLE AIRCRAFT, SINULATORS AND FLIGHT MOTIONS IN STALL CONDITION -STALL CONDITION -N63-20847 21-04 STABILITY AND CONTROL DISTURBANCES CAUSED BY TURBULENCE AND INCIDENTAL OCCURRENCES - STABILITY AND CONTROL N63-20848 21-04 NONLINEAR PROPERTIES OF AIRPLANES AND MISSILES INCLUDING CROSS COUPLING - STABILITY AND CONTROL N63-20849 21-21-04 AEROELASTIC EFFECTS ON AIRCRAFT - STABILITY AND N63-20850 21-04 CONTROL EFFECT OF X-15 MANUAL FLIGHT CONTROL AND STABILITY
SYSTEMS ON HORIZONTAL TAIL LOAD NASA-TN-0-2090 N63-22117 22-04 AUTOMATIC STABILITY AND CONTROL SYSTEMS FOR TILTING DUCTED PROPELLER VYOL TRANSPORTS N63-22245 23-03 FLAP-TYPE CONTROL SURFACE PROVIDING LONGITUDINAL TRIM & STABILITY NASA-TN-D-2030 N63-22947 23-03 STABILITY AND CONTROL PROBLEMS OF A HOVERING
JET-LIFT AIRCRAFT - FLYING BEDSTEAD
ARC-RM-3336
N63-23776
24-N63-23776 24-04 STABILITY AUGMENTATION

EFFECT OF NONLINEARITY ON STABILITY AUGMENTATIONS

OF SIMPLIFIED PARTICLE IN CELL DIFFERENCE EQUATION

LA-2414

N63-14711 10-20 STABILITY DERIVATIVE
STABILITY DERIVATIVES FOR TAPERED WINGS OF
HEXAGONAL PLANFORM OSCILLATING IN SUPERSONIC ARC-R6H-3298 N63-15742 12-03 ROLLING STABILITY DERIVATIVES OF HYPERSONIC GLIDERS AT SUBSONIC SPEEDS NASA-TM-X-268 N63-17465 15-04 WIND-TUNNEL MEASUREMENT OF PROPELLER WHIRL-FLUTTER SPEEDS AND STATIC-STABILITY DERIVATIVES AND COMPARISON WITH THEORY NASA-TN-O-1807 N63-19652 19-23 LONGITUDINAL STABILITY DERIVATIVES OF 60-DEG DELTA NING AIRCRAFT /FAIREY DELTA 2/ MEASUREMENTS IN FLIGHT N63-20047 19-04 STABILITY DERIVATIVES AFFECTING LATERAL BEHAVIOR OF AIRCRAFT AND MISSILES N63-20528 20-STABILITY TEST FLIGHT AND STABILITY STUDY OF CREW EMERGENCY
ESCAPE SYSTEM CONFIGURATION LONGITUDINAL STABILITY DERIVATIVES OF 60-DEG DELTA WING AIRCRAFT /FAIREY DELTA 2/ MEASUREMENTS IN FLIGHT ARC-CP-639 N63-20047 1 ARC-CP-639 STABILIZATION CF EQUILIBRIUM AUTOMATIC STABILIZATION AND SAFETY OF VTOL AIRCRAFT

DYNAHIC ERROR OF AUTOMATIC LONGITUDINAL

AUTOMATIC CONTROL OF HOVING OBJECTS FTD-TT-62-1073/162 N6

STABILIZATION OF A WINGED-AIRCRAFT IN A DISTURBED ATMOSPHERE N63-10300 91-22 SUPPRESSION OF SELF-OSCILLATIONS IN SERVOPILOT FTD-TT-62-876/16264 POWER ENGINEERING AND AUTOMATION - INVARIANCE, STABILIZATION AND REPRODUCTION, PULSE-RELAY SY FTD-TT-62-871/162 M63-10521 0 GYROSTABILIZATION OF AN ELLIPTIC WING WITH PERIPHERAL JET HOVERING IN GROUND EFFECT UTIA-TN-60 N43-10544 STABILIZATION - COMPUTER PROGRAMMING -CYBERNETICS - AUTOMATION JPRS-16446 02-20 N63-10638 EMISSION STABILIZATION OF THERMIONIC DIODE HOISE NBS-TN-160 M63-11031 03-09 SYNCOM SATELLITE PROGRAM - WIDEBAND COMMUNICATIONS SPIN STABILIZATION ARS PAPER-2619-62 N63-11254 03-09 CALCULATION OF TORQUE REQUIRED TO SPIN A MISSILE
TO A PRESCRIBED ROTATIONAL VELOCITY
RS-TR-62-6 N63-13040 07-30 TORQUES AND ATTITUDE SENSING IN SPIN-STABILIZED SYNCHRONOUS SATELLITES M63-13301 07-30 AERODYMANIC HEATING TESTS OF MISSILE STABILIZERS IN FREE JET AT SUPERSONIC SPEEDS NASA-TH-X-299 N63-13901 09-03 N63-13901 09-03 STRETCH YO-YO THEORY AND SATELLITE SPIN REDUCTION
NASA-TN-D-1676 10-29 STABILIZATION OF AUTOMATIC CONTROL SYSTEM BY ANALOG COMPUTER SIMULATION OF VEHICLE DYNAMICS -IMPROVED ANGLE OF ATTACK DISPLAY AIR PURIFICATION AND CONTROL IN NUCLEAR
SUBMARINES - STABILIZING EFFECT OF VERSENE FE-3
SPECIFIC ON MOMOETHANOLAMINE ABSORBER ATTITUDE CONTROL OF SATELLITES, STABILIZATION PIBMRI-1079-62 N63-16535 M63-14535 14-32 MATERIAL REQUIREMENTS FOR BOUNDARY LAYER STABILIZING COATINGS - WATER APPLICATION LIGHTWEIGHT PITCH CONTROL FOR SPIN STABILIZED
SPACE VEHICLES - FLIGHT TEST
NASA-TN-D-1922 N63-18210 14 JANA 19299 JAR 11 N63-10210 11 16-30 STABILIZATION OF FLAT DIFFUSION FLAMES - OPTICAL METHODS FOR ANALYSIS OF STRUCTURE AT VELOCITIES UP TO BLON-DUT PLASMA ARC JET WITH ELECTROMAGNETIC STABILIZATION FOR ASTRONAUTICAL USES N63-18919 18-2 DISTURBING TORQUES AND TRANSIENT RESPONSE OF GRAVITY GRADIENT-STABILIZED SATELLITES NA3-19005 18-32 CONTROLLED ROTATION AND STABILIZATION DEVICE FOR MAN IN MOTION BETWEEN SPACECRAFTS - GRBITAL WORKER AMRL-MEMO-P-21 NB3-19143 18-14 STABILITY DERIVATIVES AFFECTING LATERAL BEHAVIOR
OF AIRCRAFT AND MISSILES
NACA-AM-L53108A SNOW STABILIZATION FOR ROADS AND RUNWAYS NOS-22179 23-10 STABILIZED PLATFORM
MATHEMATICAL MODEL OF THREE-AXIS STABILIZED

N63-10298 01-22

PLATFORM SAD-93	N63-10455	01-22	HYDROMAGNETIC STAGNATION-POINT I ARBITRARY PRESSURE GRADIENT AND NASA-TN-0-1703	MAGNETIC FII N63-15768	ER WITH ELD 13-11
STABILIZER CF CONTROL SURFACE CF FIN CF FLAP			STEADY-STATE, STAGNATION-POINT, MEASURING DEVICE NASA-TN-D-1704		
STABILITY OF A CONICAL-FLARE-ST FINENESS RATIO 11.5 AT MACH 1.0 SKIRT AFFERBODY NASA-MEMO-4-2-59L	TO 3.2 - FL	ARED	COMPARISON OF THEORETICAL AND E) STAGNATION POINT HEAT TRANSFER I TEMPERATURE SUBSONIC STREAM	CPER IMENTAL	13-11
ICING TUNNEL TEST RESULTS OF C- STABILIZER CYCLIC ELECTRICAL DE T-66-7	141 HORIZONY	AL	STAGNATION POINT HEAT TRANSFER TO CYLINDERS IN SUPERSONIC AIR STRINUMBERS	EAN AT LOW RE	E EYNOLDS
STACKING FAULT CF FAULT MECHANICS			ARL-63-25 STAGNATION-POINT HEAT TRANSFER I IONIZED DIATOMIC GAS		14-13
STAGE S SATURN S-II STAGE			85D-TDR-62-347		14-13
STAGE SEPARATION FLEXIBLE LINEAR-SHAPED CHARGE F			STAGNATION POINT HEAT TRANSFER PARTIALLY IONIZED AIR AVCO-EVERETT RES. REPT143		IN 15-11
SSD-TDR-63-91-111 FLEXIBLE LINEAR-SHAPED CHARGE S	N63-18789 EPARATION TES		NONEQUILIBRIUM ELECTRON TEMPERAT WEAKLY IONIZED STAGNATION BOUND	TURE EFFECTS	IN
SPACE VEHICLE STAGE SEPARATION SSD-TDR-63-183-/III/	N63-23370		TDR-169/3230-12/TN-7 HIGH SPEED, LOW DENSITY FLOW NE	N63-17331	15-11 N DOTAL
STAGNATION FLOW KARMAN-BODEWADT ROTATING FLOW A EXAMINED BY EXTENDED BOUNDARY L	ND STAGNATION	N FLOW	OF BLUNT BODY - HYPERSONIC AEROS TRAMSFER ARL-63-75	YNAMIC HEAT	
NWL-1836 STAGNATION AND WAKE FLOWS, NORM	N63-12446	06-11 JRFACE,	CTACHATION BOINT WELT TRANSFER !	ATES OF HEM	
SOUNDARY LAYER THEORY NWL-1840			CYLINDICAL BODIES ASD-TDR-63-404 STAGNATION POINT LAMINAR HEAT TO	N63-19333	18-13 PHERE
HIGH SPEED, LOW DENSITY STAGNAT BODY PIBAL-765	SE MULITARIA		IN AIR AND NITROGEN AT HIGH TEMP AEDC-TDR-63-139	PARILIPES	19-13
COUETTE AND STAGNATION BOUNDARY			CONVECTED HEAT FLUX AT STAGNATION HEMISPHERE CYLINDER BODY	N POINT OF N63-20588	20-01
PLASMAS TDR-169/3230-12/TN-2	N63-17678	16-24	RAREFIED GAS DYNAMICS - SECOND-C	RDER BOUNDA	RY
LAMINAR BOUNDARY LAYER IN THREE STAGNATION FLOW AROUND BLUNT BO SSD-TDR-62-101	DY AND CONE N63-17892	16-11	STAGNATION POINT OF SPHERE IN SE	N63-21599	22-11
STAGNATION POINT VISCOUS BLUNT BODY PROBLEM - VOI STAGNATION POINT HEAT TRANSFER	RTICITY EQUAT	TONS -	LANGMUIR PROBE MEASUREMENTS IN S BOUNDARY LAYER OF BLUNT-NOSED BO PLASMA FLOW - ELECTRON DENSITY UTIA-TN-58		SONIC
APPROXIMATE ANALYSIS OF SIMULTA	N63-11076		MEASUREMENT OF STAGNATION POINT PLASMAS IN MAGNETIC FIELD - ERRO		ER FROM
SURFACE ATOM RECOMBINATION FOR S LAYER	STAGNATION BO	DUNDARY.	AU- The Table Ball Dear 1985 of White	N63-23489	24-24
TDR-169/3230-12/TN-4 NONEQUILIBRIUM-DISSOCIATED STAG	N63-11880 NATION POINT	4311	INVISCID MAGNETOHYDRODYNAMIC FLO POINT OF MAGNETIZED SPHERE NOLTR 63-61	N63-23773	24-24
BOUNDARY LAYERS WITH ARBITRARY : CATALYCITY - GENERAL RESEARCH ATN-63/9206/-3	N63-12087	05-13	STAGNATION POINT LANGMUIR PROBE	IN SHOCK TUE	BE 24-11
MAGNETOHYDRODYNAMIC EFFECTS ON SHEAT TRANSFER FROM PARTIALLY ION NONEQUILIBRIUM GASES IN SUPERSON TP-43	MIZED		STAGNATION PRESSURE STATIC PRESSURE & STAGNATION PRE DATA FOR DEFINING POSITION ERROR ALTITUDE SYSTEMS OF X-15 AIRCRAF	S OF AIRSPE	RATION ED-
FLOW VISUALIZATION TECHNIQUES II 15 & 20 - SURFACE STREAMLINES, A SEPARATED AFTERBOOV FLOW & STAGE NASA-TN-D-1769	HELIUM AT HATTAGHED AND	АСН	NASA-TN-0-1724 HELIUM PARAMETERS CALCULATED TO TEMPERATURES AND PRESSURES BELION TO ESTABLISH REAL GAS BEMAVIOR	N63-12951 HIGH STAGNAT	
STAGNATION POINT OF FLOW OF VARI	ABLE PROPERT	Y	NASA-TN-D-1632 REYNOLDS NUMBER CALCULATION AS F	UNCTION OF	09-11 MACH
AFOSR-2981		11-11	NUMBER, STAGNATION PRESSURE AND TEMPERATURE - TABLES RF-TR-63-3	N63-14263	10-20
POINT - HEAT TRANSFER IN PARTIAL FLOW	LY DISSOCIAT		STAGNATION REGION MEASUREMENTS OF RADIATION FROM A	HATTAN TO SHELL	ATRICES.
CALCULATED RESULTS FOR TRANSIENT MELTING OF GLASS SHIELD AT STAGE	HEATING AND		REGION OF HIGH VELOCITY MODELS TR62-209F	N63-14032	1.5014
REENTERING ICBM NASA-TN-D-1643	HERRISTA 19 1023		GRAPHITE COMBUSTION RATE AT BLUN REGION IN HYPERSONIC FLOW	T BODY STAGE	MATION

11 TE 15

11 20 13

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TDR-169/3230-12/TH-6 N63-14832 11-02	EFFECT OF NITROGEN ON STRAIN BEHAVIOR OF AISI 304 STAINLESS STEEL UNDER LOW STRESSES AND TEMPERATURE
STAGNATION REGION ANALYSIS IN HYPERSONIC FLOW AND BOUNDARY LAYERS AROUND BLUNT BODIES AT LOW	RANGE 80 TO 170-DEG C N63-13279 07-1
REYNOLOS NUMBER CAL-AF-1285-A-10 N63-19352 18-11	EVALUATION OF 300 SERIES STAINLESS STEEL TUBING FOR FUEL CLADDING
IONIZATION NONEQUILIBRIUM EFFECTS ON MAGNETOGAS-	GEAP-4095 N63-13499 TOB-1
DYNAMIC INTERACTION IN STAGNATION REGION OF	
AXISYMMETRIC BLUNT BODIES CAL-AG-1547-Y-1 N63-19884 19-24	FRACTURE TOUGHNESS OF STAINLESS STEEL FOR SUPERSONIC TRANSPORT DMIC-MENO-164 N63-13503 08-3
THERMOCHEMICAL EFFECTS OF FOREIGN PLANETARY	ANNEALING STUDIES ON IRRADIATED TYPE 347 STAINLES
ATMOSPHERES UPON LAMINAR HEAT TRANSFER IN	STEEL FROM ENGINEERING TEST REACTOR PRESSURE TUBE
HYPERSONIC STAGNATION REGION - GAS DYNAMICS NASA-CR-50882 N63-19949 19-13	80 - 1023471 - 12+40
THERMAL RADIATION OF AIR FROM STAGNATION REGION OF	PROJECTILE FROM A SOUNDING ROCKET AT HYPERVELOCIT
BLUNT BODIES AT HYPERSONIC SPEED NASA-TM-X-508 N63-20536 20-13	AFCRL-62-803 N63-14180 109-1
THE PERSON NAMED IN THE PE	MECHANISM OF STRESS CORROSION IN STAINLESS STEELS
PRESSURES IN STAGNATION REGIONS OF BLUNT BODIES IN VISCOUS LAYER TO MERGED LAYER REGIMES OF RAREFIED	CRACKING AND FAILURE STUDY AND
GAS FLOW AEDC-TDR-63-168 N63-20600 20-11	THERMAL STABILITY OF TEFLON IN CONTACT WITH
TAGNATION TEMPERATURE	AUSTENITIC STAINLESS STEEL AND OTHER STRUCTURAL MATERIALS 1 CMA 23202 3 222 100 No3-15266 24 12-1
HELIUM PARAMETERS CALCULATED TO HIGH STAGNATION	- THE SELECT MALE AND ASSESSMENT OF THE SELECT STREET TO SELECT THE SELECT STREET TO SELECT THE SELECT SELE
TEMPERATURES AND PRESSURES BELOW CRITICAL DENSITY TO ESTABLISH REAL GAS BEHAVIOR	QUANTITATIVE ANALYSIS OF SILICON AND COBALT IN STAINLESS STEELS BY X-RAY SPECTROGRAPHY
MASA-TN-D-1632 N63-14207 09-11	EUR-203.F N63-15403 12-1
REYNOLDS NUMBER CALCULATION AS FUNCTION OF MACH NUMBER, STAGNATION PRESSURE AND STAGNATION	DETERMINATION OF LOW CYCLE FATIGUE DESIGN DATA ON TI-6AL-SV ALLOY, 301 STAINLESS STEEL, AND AM-355
TEMPERATURE - TABLES	STAINLESS STEEL IN MULTIAXIAL STRESS FIELD
RF-TR-63-3 N63-14263 10-20	CVC-2-53420/2R400
LOW DENSITY WIND TUNNELS OPERATING WITH HIGH STAGNATION TEMPERATURES	LOW CYCLE FATIGUE DATA FOR MULTIAXIAL STRESS ANALYSIS - EFFECT OF COLD DRAWING & SHEAR SPINNIN
ASD-TDR-63-154 H63-16402 14-10	ON STRENGTH OF STAINLESS STEEL & TITANIUM ALLDY
RAREFIED GAS DYNAMICS - MEASUREMENTS OF STAGNATION	CVC-2-53420/3R411 H63-15913 13-3
HEAT TRANSFER USING CALORIMETRIC TRANSIENT METHOD N63-21608 22-11	LOW CYCLE FATIGUE DATA FOR STAINLESS STEELS AND TITANIUM ALLOYS IN MULTIAXIAL STRESS FIELDS
PINATING STITH TRANSVERST STANDING MAD IN SMINIAT	CVC-2-53420/3R436 N63-15914 13-3
EFFECTS OF STAINING ON MICROSPHERES PRODUCED FROM	ALUMINUM OXIDE FIBERS AS REINFORCEMENT FOR IRON
THERMAL POLYAMINO ACIDS N63-11326 03-16	NICHROME ALLOYS AND STAINLESS STEEL
POLYAMINO ACIDS N63-17667 16-16	STAINLESS STEEL NOTCH STRENGTH AT CRYOGENIC
TAINLESS STEEL FOR ATHOUGH AT COMMIT BOARD DEBINATE	TEMPERATURES - LOAD AND STRESS CONCENTRATION FACTOR - NICKEL ALLOY
CF IRON ALLOY TENSILE PROPERTIES OF FIVE LOW-ALLOY AND STAINLESS	ASD-TDR-62-930 30MA9 341221M MN63-16714 M 14-1
STEELS UNDER HIGH HEATING RATE AND CONSTANT	STRUCTURE OF AUSTENITIC STAINLESS STEEL UNDERGOIN
TEMPERATURE JPL-TR-32-222 N63-11053 03-18	MARTENSITE TRANSFORMATION IN CRYOGEN HYDROGEN STUDIED WITH ION BONBARDNENT MICROSCOPE
STAINLESS STEELS WITH REDUCED NICKEL CONTENT AND	CERN-63-11 Marie May 15-2
PROSPECTS OF ELECTROSLAG REMELTING	FABRICATION METHODS - THERMAL AND HYDROSTATIC
JPRS-17016 N63-11605 04-18	TESTING OF STAINLESS STEEL - TITANIUM LIQUID
LOW CYCLE TENSILE FATIGUE TESTS OF 305 STAINLESS STEEL	AFFTC-TR-60-43, VOL. IV - N63-17606 16-3
MATT-154 N63-11707 04-33	URANIUM CARBIDES IN SODIUM SYSTEMS
THERMAL RADIATIVE PROPERTIES OF SELECTED MATERIALS	MAA-SR-6246 - SACE ASASMONDE A M63-17695 46-1
INCLUDING TITANIUM ALLOYS, STAINLESS STEELS, SUPERALLOYS, REFRACTORY METALS, AND COATINGS	MECHANICAL PROPERTIES OF AUSTENITIC STATULESS
DHIC-177, VOL. 1 N63-11915 04-13	STEEL SINGLE CRYSTALS N63-17900 16-1
DETERMINATION OF ENRICHED URANIUM IN URANIUM OXIDE-STAINLESS STEEL SOLUTIONS BY X-RAY	HIGH STRENGTH & FRACTURE TOUGHNESS IN STAINLESS STEEL THROUGH STRAIN INDUCED TRANSFORMATIONS
FLUORESCENCE N63-12445 06-07	MAL-TR-323.4/2-2 147375 N63-19001 10-1
COMPATIBILITY OF TYPE 302-8 STAINLESS STEEL WITH	CORROSION OF 304 STAINLESS STEEL CONTAINING ONE
OXIDES OF PLUTONIUM AND URANIUM, AND WITH SILICON AND NICKEL	PERCENT BORON N63-19515 19-1
LA-2828 N63-12993 07-18	HIGH STRENGTH & PRACTURE TOUGHNESS IN STEELS THRU
EFFECTS OF NEUTRON IRRADIATION AND ELEVATED	STRAIN-INDUCED WARTENSITE TRANSFORMATION
TEMPERATURES ON 2 TYPE 347 STAINLESS STEEL BMI-1609 07-18	UA1A-73-72-10145- UA3-13-21 17-20-
PHASE TRANSFORMATION IN CALCINATION OF NITRATES OF	LONG TIME INTERMITTENT CREEP OF STAINLESS STEELS
ALUNINUM, STAINLESS STEEL, AND NICKEL-CHRONIUM	FPR-007 1 24 1 4 4 4 4 4 4 5 1 2000 3 3 4 463-20281 1 20-1
IDO-14601 N63-13200 07-23	LOW TEMPERATURE TENSILE & NOTCH PROPERTIES, STRES

MA ST NA

AND STRAIM DISTRIBUTIONS, & MELDING TESTS OF AUSTENITIC STAINLESS STEELS ARMA-TR-63-08 N63-20624 20-18	STATIC STABILITY TEST ON .098 SCALE STANDARD LAUNCH VEHICLE SLV-IB WITH 4-SQUARE-FOOT FIN AREA AFSWC-TDR-63-21 N63-16897 14-04
STRESS CORROSION RESISTANCE OF STAINLESS STEEL MATERIAL HEAT TREATED TO SPECIFIC STRENGTH LEVELS FTON-2979 N63-21648 22-18	STANDARD LAUNCH VEHICLE-3 /SLV-3/ RELIABILITY & QUALITY CONTROL REQUIREMENTS FOR ATLAS ICBM-STANDARD LAUNCH VEHICLE-3 GOA-63-0436 N63-21031 Z1-30
PRESSURE IMPULSE FATIGUE TEST OF WELDED STAINLESS	AN OFFICE AND LABOUR THE STRONG TO STRONG OF
STEEL TUBING N63-21662 22-33	STANDARDIZATION CF CALIBRATION
HIGH TEMPERATURE EXPOSURE EFFECTS ON MOLYBDENUM AND STAINLESS STEEL BRAZED JOINTS	ECONOMIES IN NATIONAL SPACE PROGRAM — ASTROPLANE — STANDARDIZATION TECHNIQUES, SEA—LAUNCHED BOOSTERS — CONGRESSIONAL REPORT
FGT-2068 N63-21707 22-33	N63-12292 05-01
ELASTOMERIC COATINGS COMPARED TO STAINLESS STEEL AS EROSION RESISTANT LEADING EDGE OF HELICOPTER ROTOR BLADES	NATIONAL BUREAU OF STANDARDS CONTRIBUTION TOWARD SPACE EFFORT - MEASUREMENTS AND CALIBRATIONS - CONGRESSIONAL HEARINGS NG3-15796 13-01
A080 N63-21886 22-18	CONFERENCE ON CLEAN ROOM SPECIFICATIONS -
MELDING AND TESTING PROGRAM OF SUPERALLOYS & STAINLESS STEELS FOR DESIGN & CONSTRUCTION OF HIGH TEMPERATURE GAS LOOP	STANDARDIZATION OF ENVIRONMENTAL CONTROL PROCEDURE SCR-652 H63-16287 13-16
HN-78574 N63-22424 23-18	STANDARDIZATION OF ENVIRONMENTAL TEST METHODS FOR AEROSPACE AND GROUND EQUIPMENT
FAST REACTOR FUEL CYCLE COSTS AND TEMPERATURE	N63-16752 14-10
COEFFICIENTS OF REACTIVITY FOR PLUTONIUM DIOXIDE— STAINLESS STEEL & PLUTONIUM-URANIUM DIOXIDE SYSTEM APDA-154 N63-22732 23-23	STANDARDIZED THERMODYNAMIC DATA AND COMPUTER PROGRAM FOR ROCKET PERFORMANCE PREDICTION NOLTR-62-211 N63-19106 18-23
ADHESIVES FOR CRYOGENIC APPLICATION WITH ALUMINUM, STAINLESS AND TITANIUM ALLGYS	STANDARDIZATION OF HURST RADSAN NEUTRON DETECTOR
NASA-CR-52278 N63-23797 24-19	USNRDL-TR-598 12 12 150 MOLT N63-20282 20-23
STALL, STALLING CF ANGLE OF ATTACK	COMPUTER PROGRAM NOMENCLATURE STANDARDIZATION CPIA PUBL. 28 N63-22358 23-24
SMALL PERTURBATIONAL ANALYSIS OF ROTATING STALL IN INVISCID, INCOMPRESSIBLE FLOW	STANDING WAVE STRUCK STRUCK OF THE STRUCK OF THE STANDING WAS A STRUCK OF THE STRUCK O
CP-609 100711 2 5576 522 534 544 5 N63-11927 04-11	HOMOGENEOUS, IONIZED COLD STREAMS
ROTATING-STALL LIMITS IN SUPERSONIC TURBOFAN ENGINE	AFCRL-62-1093 M 2 M 2 A 3 M - 2 3 M 2 M 4 M 63-11456 (03-12
NACA-RM-E57G26A N63-12514 06-27	TURBULENT BOUNDARY LAYER FLOW OVER FLAT PLATE VIBRATING WITH TRANSVERSE STANDING WAVES
ROTATING STALL IN SINGLE-STAGE AXIAL COMPRESSOR TIL/T-5379 N63-12601 06-11	N63-12196 05-11 STANDING DETONATION WAVES - HYDROGEN-OXYGEN
S TEST STAND	IGNITION DELAY - VIBRATIONAL RELATION EFFECTS - TWO-DIMENSIONAL EFFECTS IN GASEOUS DETONATIONS
STANDARD A STANDARD STANDARD STANDARD STANDARD	
TIME SIGNAL SYNCHRONIZATION AND FREQUENCY STANDARD FOR AUSTRALIAN MISSILE RANGE EID-12 N63-17643 16-10	STANNIC OXIDE PHOTOCONOUCTIVITY AND CHEMISORPTION KINETICS FOR STANNIC OXIDE CRYSTALS N63-16257 13-25
DESIGN OF PYRHELIOMETERS AND ESTABLISHMENT OF	STANNIDE
STANDARD SCALES FOR SOLAR RADIOMETRY AFCRL-63-887 N63-23667 24-15	EFFECT OF MAGNETIC FIELD ON THERMAL & ELECTRICAL PROPERTIES OF MAGNESIUM STANNIDE & INOIUM ANTIHONIDE
STANDARD ATMOSPHEAE THE UNITED STATES STANDARD ATMOSPHERE, 1962 ARS PAPER-2678-62 N65-11271 03-21	MAGNESIUM STANNIDE SEMICONDUCTOR - PHOTON ENERGY ABSORPTION, HALL COEFFICIENT, AND OTHER ELECTRIC
U.S. STANDARD ATMOSPHERE - 1962 N63-12971 07-21	PROPERTIES 05-114 N63-20298 20-18
U.S. STANDARD ATMOSPHERE, 1962 - PROPERTIES.	STANNOSILOXANE ROCKET LINERS - METALLOSILOXANE COPOLYMERIC
DEVELOPMENT OF GRAVITY AND GEOPOTENTIAL,	ELASTOMERS - STATE OF TO JAMES MARKET ADMITCH AND
SYSTEMATIC VARIATION 2 21122 N63-13176 07-12	ROC/LIN-FINAL . 2.41 W - 201 . 2 . N63-12667 06-19
POLYMONIAL FIT TO DEFINING POINTS FOR MEAN MOLECULAR WEIGHT IN 1962 U.S. STANDARD ATMOSPHERE GCA-TR-63-8-A N63-14363 10-20	ROCKET LINER PROGRAM - CATALYST FOR CURING STANNO SILOXANE POLYMERS ROC/LIN-8Q MARKET MARKET N63-15416 12-01
MODEL OF CLEAR STANDARD ATMOSPHERE FOR DETERMINING ATTEMUATION IN VISIBLE REGION AND IMPRARED MINOOMS AFCRL-63-675 N63-23756 24-23	ROCKET LINER PROGRAM - STANNOSILOXANE POLYMER MATERIAL FOR ROCKET MOTOR CASE INSULATION APPLICATION
STANDARD LAUNCH VEHICLE-1 /SLV-1/	14-2820 (0552-63)
PAYLOAD CONSIDERATIONS FOR THE STANDARD LAUNCH VEHICLE-10 SPACE PROBE /SLV-10/ SLV-10-3 N63-13158 07-31	STAN SA STELLAR HEADINGS ITATORARI MORTURA DE L'ESPATS SA 6 STAR L'ALLE MARTE CAM BAYT S NO STANDARDE MORTURA DE L'ALLE MARTE CAM BAYT S NO STANDARDE MORTURA DE L'ALLE MARTE CAM BAYT S NO STANDARDE MORTURA DE L'ALLE MARTE CAMBRILLA DE L'ALLE MARTE CAMB
STANDARD LAUNCH VEHICLE-18 /SLV-18/ PAYLOAD CONSIDERATIONS FOR THE STANDARD LAUNCH VEHICLE-18 SPACE PROBE /SLV-18/	SA CASSIOPEIA A SA EARLY STAR SA OMICRON CETI STAR, AND MI ROTHANDRIMANTA BEARIN SA VARIABLE STAR
5LV-18-3 ICAN NG3-13158 07-31	CF GALAXY

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8

MAGNETIC FIELD OF THE CRAB NEBULA AND ITS CENTRAL	ASTRONOMICAL PHOTOMETRY N63-15077 11-05
STAR NASA-TY-F-112 N63-10769 02-05	INFRARED SPECTRA OF STARS AND PLANETS - PART 114
SPACE SCIENCE - EARTH, SUN, AND STARS - RADIATION AND	WATER IN OMICRON CETI N63-15084 11-05
N63-11138 03-29 STUDY OF PLANETARY ATMOSPHERES BY STELLAR	OBJECTIVES OF ORBITING ASTRONOMICAL OBSERVATORY SATELLITES CONTINUOUS ULTRAVIOLET B INFRARED MEASUREMENT OF CELESTIAL RADIATION, STELLAR MAP
OCCULTATION ##-3279-JPL N63-11322 03-05	77249777 894 NOSTAMMON - 2801 J MUMTOSTA - 1301
STAR SIMULATOR FOR REPRODUCTION OF BLACK-BODY	ORDVAC COMPUTER PROGRAMMING FOR IDENTIFICATION OF STARS & COMPUTING STANDARD COORDINATE SYSTEM BRL-MR-1451 100 12-22
AFOSR/DRA-62-22 N63-11489 03-28	ATMOSPHERIC MODEL OF WHITE DWARF STARS
NUCLEAR STAR DENSITY PRODUCED BY 24-GEV PROTON BEAN IN HEAVY CONCRETE ORML-3367 N63-11983 05-23	N63-15514 12-05 LUMINOSITY AND EVOLUTION OF MAIN-SEQUENCE STARS
FLICKERING OF STAR IMAGES IN TELESCOPES -	N63-15706 12-05
BARYCENTRIC HIGH RELIEF OF LIMB ZONE OF MOON - SOLAR DIFFRACTION SPECTOGRAPH	HULTIFUNCTION SENSORS FUR SPACE VEHICLE GUIDANCE AND NAVIGATION - STAR FIELD TRACKING N63-15916 13-22
SHIPPER TENTAL THE STATE OF STATE OF STATE OF STATES	COMPUTATION OF EGHER VIREL OF MASS OF A PAIN
FLICKERING OF STAR IMAGES IN TELESCOPES N63-12202 05-05	ATMOSPHERES OF SUPERGIANT STARS N63-16200 / 13-05
VARIATION OF RADIO-STAR AND SATELLITE AMPLITUDE SCINTILLATIONS WITH ZENITH ANGLE - EFFECT OF IONOSPHERIC TRREGULARITIES N63-12467 06-12	PHYSICAL PROCESSES IN STARS - STELLAR STRUCTURE, SOLAR PHYSICS, PROTON-PROTON REACTION, AND ENERGY TRANSFER N63-16232 13-05
COLLAPSE PHASE OF EARLY SOLAR EVOLUTION NASA-TM-D-1682 N63-12594 06-29	CORRECTION OF PHOTOGRAPHIC MAGNITUDES OF STARS EMBEDDED IN NEBULOSITES AND MEASURED BY EIGHNER PHOTOMETERS - BACKGROUND EFFECT CORRECTION
ROLE OF TURBULENCE IN STAR FORMATION IN SLIPTICAL GALAXIES N63-12747 06-29	10101011103 - BRUNDOND EFFECT CONCESSION (14-29)
DATA ON VISIBILITY OF STARS AND ITS USEFULNESS	STAR TRACKING - H ALPHA LINE IN STELLAR SPECTRUM N63-16693 14-29
IN APOLLO PROJECT E-1172 N63-12777 06-05	STELLAR & PLANETARY OBSERVATIONS AT 10 HIGRORS
ASTRONOMICAL CATALOG OF EQUATORIAL STARS N63-12813 06-05	MADE BY PORTABLE INFRARED TELESCOPE & PHOTOMETER UTILIZING MERGURY DOPED GERMANIUM DETECTOR N63-16703 14-29
STAR LIST FOR USE WITH STAR TRACKER OF MARK 1 GUIDANCE SYSTEM NAI-56-755 N63-12816 06-05	ULTRAVIOLET STELLAR SPECTRA FROM ROCKET SOUNDINGS, COMPARISON OF OBSERVED RADIATION FLUX WITH MODEL STELLAR ATMOSPHERES AND INTERSTELLAR RADIATION VASA-TM-X-50021
GRAVITATIONAL INSTABILITY AND ONE-COMPONENT PLASMA OSCILLATIONS IN CHARGED GAS - APPLICATION TO STELLAR SPECTRA	INERTIAL GUIDANCE SYSTEMS - STELLAR INERTIAL GUIDANCE N63-16859 14-22
MF-33 4 A A SVETA A A A A A A A A A A A A A A A A A A	TEN MICRON PHOTOMETRY OF STARS THE TO TRANSPORTE
ANALYTIC SOLUTION FOR ATMOSPHERIC DENSITY FROM SATELLITE OBSERVATIONS OF STELLAR REFRACTION 07-12	NASA-CR-50143 N63-17028 15-15 PHOTOMETRIC OBSERVATIONS OF STARS AND STAR
SOUTHERN SKY SURVEY - NEBULOSITIES, ULTRAVIOLET	CLUSTERS N63-17345 15-05
NASA-TN-D-1719 N63-13104 07-32	VIBRATION MODES AND RESONANT VIBRATION OF BETA CEPHEI AND BETA CANIS HAJORIS - STAR
ATHOSPHERIC SOUNDING BY SATELLITE MEASUREMENTS OF	AND MADE TO ALLEYS CANARS SUM N63-17697 16-29 AND SOME PROPER ALBERTANDS MUTUSE ME DEST-R MINES NAME - 02
STELLAR REFRACTION N63-13280 07-21	ASTRONOMY - STARS, STELLAR EVOLUTION, AND EXTRA- GALACTIC RESEARCH
MAGNETIC FIELDS - INTERPLANETARY, PLAMETARY, STELLAR, METEORIC AND GEOMAGNETISM RN-3523-MASA 09-12	NASA-CR-50238 NASA-T7792 116-05 DISCOVERY, LUMINOSITY, AND SPECTRAL TYPE OF
DIGITALIZED MULTI-COLOR PHOTOMETER AND DATA REDUCTION SYSTEM FOR STELLAR OBSERVATIONS IN 0.35	NOVA URSAE MINORIS 1956 N63+17797 16-05
TO 5.0 NICRON REGION N63-14009 09-15	CHARACTER OF INFRARED STELLAR BACKGROUND 3250 2234
SIGHTING PROBLEMS ASSOCIATED WITH SEXTANT TYPE MESSIGNEMENT OF STAR POSITION FOR SPACE NAVIGATION NASA-TN-D-1653	RECORDING OF STAR CATALOG ON MAGNETIC TAPE FOR
NASA-TN-D-1653 N63-14444 10-22 EFFECT OF FIELD OF VIEW AND ORIENTATION ON TIME REQUIRED FOR STAR FIELD IDENTIFICATION PATTERN	DIGITAL COMPUTER APPLICATION NASA-TH-X-50150
RECOGNITION N63-14445 10-22	DYNAMICAL PROPERTIES OF STELLAR CORONAS AND STELLAR WINDS — INTEGRATION OF HEAT FLOW SQUATTON — THERMOCONDUCTIVITY
ACCURACY OF MANUAL OPTICAL THEODOLITE SIGHTING OF THE CENTER OF A PLANETARY DISK	NASA-CR-50463 4 NSAS AND N63-10373 17-05
NEUTRING PROCESSES IN RED GIANT STELLAR EVOLUTION	STAR CATALOGS ON PUNCHED CARDS AND HAGNETIC TAPE HASA-TH-X-50148 HASA-19421 17-20
PHOTOMETRIC STUDY OF ASTEROID, LUNAR HAP,	THE IN UNIVERSE AND DEPENDENCE ON ENERGY FROM
SPECTROPHOTOMETRY OF STARS AND PLANETS, AND SPANNING	M63-18920 118-16 - D2

ORGANIC COSMOCHEMISTRY - FORMATION OF BICCHEMICAL COMPOUNDS IN STELLAR ATMOSPHERES	STARTING CF INITIATION
N63-19480 19-29	
POSSIBILITY OF HYPER-STAR AS LUMINOUS SOURCE IN LIGHT VARIATION OF RADIO SOURCE 3C273 - VARIABLE STAR N63-19768 19-05	STATE S EXCITED STATE S GROUND STATE S TRIPLET STATE
STELLAR SPECTRUM LINES - FORMATION AND INTENSITY NASA-TT-F-116 N63-19860 19-28	STATE EQUATION SA HUGONIOT EQUATION OF STATE THERMODYNAMIC DESCRIPTION OF METALS BASED ON THE
HELMHOLIZ-KELVIN TIME SCALE FOR STARS OF VERY LOW MASS NG3-20625 20-05	MIRROR-IMAGE CONCEPT, EQUATION OF STATE, DEFLAGRATION TO DETONATION
TEMPERATURE DISTRIBUTION IN STELLAR ATMOSPHERE - ITERATIVE PERTURBATION METHOD OF ANALYSIS	QUANTUM VIRIAL THEOREM - EQUATION OF STATE OF
AFCRL-63-829 N63-20834 21-29	FLUIDS NASA-CR-50132 N63-17212 15-23
SATELLITE DESIGN FOR MEASURING THE ULTRAVICLET SPECTRUM OF STARS RAE-R-SPACE-1 N63-2C038 21-32	NUCLEAR MEAPONS - EQUATION OF STATE AT HIGH PRESSURE BY STATISTICS N63-17323 13-23
COMPUTATION OF LOWER LIMIT OF MASS OF A MAIN	STATE EQUATION OF GAS MIXTURE AT CRITICAL PRESSURE
SEQUENCE STAR NASA-RP-13 N63-21099 21-29	AND TEMPERATURE UCRL-10650 N63-18056 16-20
CALIBRATICS OF PC-1000 CAMERAS BY STAR PHOTOGRAPHY	MONTE CARLO CALCULATIONS OF EQUATION OF STATE OF
BRL-MEMC-1468 . N63-21190 21-05	12- AND 48-MOLECULE HARD CIRCLES LA-2827 N63-18322 18-28
MAGNETIC FIELDS - FFFECT AND VARIATION IN STELLAR EVOLUTION AND EQUILIBRIUM	EQUATION OF STATE - COMPRESSIBILITY EQUATION VALID
AEES-63-9 N63-21650 22-29	FOR LIQUIDS
SUDDEN ENERGY RELEASE AT CENTER OF THEORETICAL POLYTROPIC STAR CARRYING MAGNETIC DIPOLE	STATE VECTOR
A6E5-63-8 N63-22061 22-05	MEASUREMENT OF THE STATE VECTOR NASA-TN-D-1590 N63-10202 01-20
ATLAS OF STARS FROM 30 DEGREES NORTH TO POLE - MAP OF STELLAR FIELD N63-22383 23-05	ADAPTIVE STATE VECTOR CONTROL - SECTION 7,
CONVECTIVE MODELS FOR STARS OF VERY LOW MASS NASA-TN-C-1907 N63-22710 23-05	MH-MPG-1529-TR-7 N63-14340 10-20 SECONDARY STATE ASSIGNMENT FOR SEQUENTIAL MACHINES
SPECTROMETRY OF THETA LEONIS STAR N63-22736 23-05	PIBMRI-1174-63 N63-19504 19-09
TELESCOPIC OBSERVATIONS OF STELLAR SCINTILLATION - ZENITH DISTANCE & APERTURE EFFECTS FTD-TT-62-1430/162 N63-23727 24-29	REDUNDANT MEASUREMENTS FOR SPACE NAVIGATION - RANDOM VARIABLES, STATE VECTOR, BAYES ESTIMATOR AIAA PAPER-63-333 N63-20757 21-29
STAR CLUSTER MEASUREMENT OF DISTANCE MODULUS AND COLOR EXCESS OF OPEN STAR CLUSTERS BY THREE-COLOR PHOTOMETRY	MECHANIZING RELAY CONTROLLERS USING BOOLEAN INPUTS TO CONTROL MAPPING LOGIC - ADAPTIVE STATE VECTOR CONTROL TIME-OPTIMAL REGULATION NASA-CR-50274 N63-21069 21-20
N63-22738 23-05	STATIC AERODYNAMIC CHARACTERISTIC S
STAR FIELD EFFECT OF FIELD OF VIEW AND ORIENTATION ON TIME REQUIRED FOR STAR FIELD IDENTIFICATION - PATTERN	STATIC STABILITY AND DRAG CHARACTERISTICS OF BLUNT BODIES AT TRANSONIC SPEED NASA-MEMO-10-28-58L N63-12501 06-02
RECOGNITION N63-14445 10-22	WIND TUNNEL INVESTIGATION AT SUBSONIC & TRANSONIC
VARIABLE STARS IN SCUTUM CONSTELLATION N63-16222 13-05	SPEED OF STATIC AERODYNAMIC AND CONTROL CHARACTERISTICS OF CAPSULE-BOOSTER MODEL
GALACTIC STRUCTURE IN STAR FIELDS OF AQUILA SAGITTA AND CASSIDPEIA N63-20715 21-05	NASA-TM-X-317 N63-12559 06-02 STATIC AERODYNAMIC CHARACTERISTICS OF SHORT BLUNT
STAR FISH PROJECT	10-DEG SEMIVERTEX ANGLE CONE IN HELIUM AT SUPERSONIC SPEED
STARFISH PROJECT - NUCLEAR EXPLOSION - ARTIFICIAL RADIATION BELT N63-15360 12-28	NASA-TN-D-1648 N63-12701 06-02
HESS DESCRIPTION OF ARTIFICIAL RADIATION BELT MADE BY STARFISH NUCLEAR EXPLOSION OF JULY 9, 1962 SUI-63-3 N63-17739 16-28	TRANSONIC STATIC AERODYNAMIC CHARACTERISTICS OF BLUNT CONE CYLINDER BODY WITH FLARED AFTERBODIES OF VARIOUS ANGLES AND BASE AREAS NASA-TM-X-106 N63-13892 09-02
ARTIFICIAL RADIATION BELT FORMED BY TRAPPED	LENTICULAR-SHAPED REENTRY VEHICLE STATIC
ELECTRON PARTICLES FROM STARFISH HIGH ALTITUDE NUCLEAR EXPLOSION	LONGITUDINAL AERODYNAMIC CHARACTERISTICS AT TRANSOMIC SPEEDS
NASA-TM-X-50195	NASA-TM-X-423 N63-13906 09-32
ELECTRON SPECTRA AND FLUXES TRAPPED IN EARTHS MAGNETIC FIELD FOLLOWING RECENT HIGH ALTITUDE NUCLEAR EXPLOSIONS OF STARFISH PROJECT UCRL-7309, REV. I N63-19921 19-12	STATIC AERODYNAMIC CHARACTERISTICS OF THREE-STAGE TRAILBLAZER II ROCKET VEHICLE DETERMINED IN LOW TURBULENCE PRESSURE WIND TUMNEL NASA-TN-D-1786 N63-15307 12-02
STARGAZER PROJECT	WIND TUNNEL INVESTIGATION OF STATIC AERODYNAMIC
OBJECTIVES OF STARGAZER PROJECT - AEROSPACE MEDICINE N63-20561 20-04	CHARACTERISTICS OF MERCURY CAPSULE MODEL AT TRANSONIC SPEEDS NASA-TH-X-292 N63-17988 16-02
	In Whitehold

16 -23

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29

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12

2

2

WIND TUNNEL INVESTIGATION OF STATIC AERODYNAMIC CHARACTERISTICS OF SCALE MODEL OF REENTRY CAPSULE MASA-TH-X-233: M63-17992 16-30	ANALYSIS OF INITIAL STATIC PRESSURE PROBE MEASUREMENTS IN LOW-DENSITY MYPERVELOCITY WIND TUNNEL AEOC-TOR-63-94 N63-15484 12-11
STATIC AERODYNAMIC CHARACTERISTICS OF MODIFIED MERCURY ESCAPE AND EXIT CAPSULE COMFIGURATIONS AT MACH NUMBERS 0.30 TO 1.4 MASA-TH-X-547 M63-20539 20-02	HEAT TRANSFER, TEMPERATURE DISTRIBUTION AND MALL STATIC PRESSURE OF CIRCULAR CYLINDER IN SUPERSONIC MIND TUNNEL NASA-TRA-R-104
TRANSONIC WIND-TUNNEL TEST OF STATIC AERODYNAMIC CHARACTERISTICS OF CONFIGURATIONS OF BLUE SCOUT LAUNCH VEHICLE NASA-TN-D-1958 NG3-21891 22-31	PUMP ENERGY REDUCTION REQUIRED FOR SOLID STATE RUBY LASER BY GAMMA RAY DAMAGE AND HIGH STATIC PRESSURE APPLICATION - MICRONAVE SPECTRUM
STATIC LONGITUDINAL AERODYNAMIC CHARACTERISTICS'S SURFACE PRESSURE DISTRIBUTIONS OF FOUR-STAGE SCOUT VEHICLE MODEL NASA-TN-D-2026 N63-22945 23-02	AIRCRAFT STATIC PRESSURE SYSTEK CALIBRATION BY GROUND CAMERA AND GROUND RADAR METHODS NASA-TX-D-2012
STATIC DIVERGENCE AEROELASTICITY - FLUTTER OF MING PANELS, CONTROL SURFACES, ALL-MOVABLE TAIL SURFACES - MOTION EQUATIONS, STATIC DIVERGENCE, CONTROL REVERSAL	PRESSURE CHARACTERISTICS IN SUBSONIC AND SUPERSONIC FLOW - STATIC AND DYNAMIC PRESSURE PROBES M68-20006 21-15
N63-14113 09-01	FLUSH STATIC PORT MAINTENANCE - AIRCRAFT INSTRUMENT F-8298 N63-22866 23-10
STATIC ELECTRICITY CF ATMOSPHERIC ELECTRICITY CF ATMOSPHERICS	FREE STREAM CONTROL FOR LOW SPEED WIND TUNNEL - PULSATING FIELD, STATIC PRESSURES AND VELOCITY DISTRIBUTIONS FTD-TT-62-1476/182 *** STATES NG3-23728 *** 24-10
CF ELECTROSTATICS	STATIC PROPELLER THRUST CF PROPELLER
TCREC-TR-62-22 N63-13506 08-04 HELICOPTER-FUSELAGE-HOUNTED STATIC ELECTRICITY DISCHARGER	STATIC STABILITY PROJECT FIRE - SPACE AND REENTRY YEHICLE STATIC STABILITY NASA-TN-D-1497 M63-10178 01-02
TCREC-TR-62-93 N63-17102 15-06 DISCHARGE OF HELICOPTER STATIC ELECTRICITY - CORONA DISCHARGE PROBES	STATIC STABILITY TESTS IN HYPERSONIC ARC TUNNEL ON BLUNTED COME AT MACH 20 N63-10628 02-02
TCREC-TR-62-33 16-04 16-	DRAG AND STATIC STABILITY FOR A BLUNT-NOSED 10-DEG HALF-ANGLE COME IN HYPERSONIC FREE-FLIGHT NASA-TN-X-507 N63-11132 03-02
EXPLORATORY STATIC ENERGY CONVERSION - MULTILAYER THERMIONICS ASD-TOR-63-723 N63-23693 24-23	STATIC STABILITY AND DRAG CHARACTERISTICS OF BLUYF BODIES AT TRANSONIC SPEED NASA-MEMO-10-28-58L
STATIC FIRING SKYTOP-2 VERTICAL STATIC FIRING AND ALTITUDE- SIMULATION FACILITY NAVWEPS-8068 N63-13611 08-10	STATIC LONGITUDINAL AERODYNAMICS OF WING AND BLUNT BODY SHAPES FOR USE AS REENTRY CONFIGURATIONS AT Hypersonic speed and angles of attack up to 90-deg NASA-TH-X-65
ALGOL SOLID-PROPELLANT ROCKET ENGINE PROGRAM - STATIC FIRING, IGNITER-RECOVERY NASA-CR-50652 N63-18207 16-27	LOW-SPEED STATIC LONGITUDINAL AND LATERAL CHARACTERISTICS OF DELTA-MING MODEL NITH FIXED AND FREE-FLOATING CANARD SURFACES NASA-TH-X-120 NAS-12555 08-02
ALGOL SOLID-PROPELLANT ROCKET ENGINE PROGRAM - STATIC FIRING, IGNITER-RECOVERY NASA-CR-50635 N63-19208 16-27	STATIC LONGITUDINAL STABILITY AND ROLL OF THREE- STAGE MISSILE CONFIGURATION AT SUPERSONIC SPEEDS
STATIC MOMENT QUASI-LINEAR SUBSTITUTION METHOD FOR CUBIC STATIC MOMENT INFLUENCE ON MODAL DAMPING OF MISSILE BRL-MEMO-1466 N63-19516 19-20	NASA-TH-X-124 M63-12556 06-02 STATIC LONGITUDINAL STABILITY CHARACTERISTICS OF BLUNTED GLIDER REENTRY CONFIGURATION
STATIC PRESSURE SUPERSONIC WIND TUNNEL TESTS ON EXPERIMENTAL STATIC PRESSURE PROBES USCEC-65-50 12 20 20 20 20 20 20 20 20 20 20 20 20 20	EFFECT OF JET-ENGINE AIR-INLETS ON LOW SPEED STATIC LONGITUDINAL STABILITY AND QUANTITY FLOW OF MX-1764 AIRCRAFT
PATTERN VARIATIONS IN SUPERSONIC JET FLOW THROUGH CONTOURED NOZZLES UNDER OVEREXPANSION CONDITIONS STUDIED BY SCHLIEREN PHOTOS AND STATIC PRESSURES N63-12249 05-11	WAGA-RM-SL54A06 REFFECT OF JET ENGINE AIR-INLETS ON LOW SPEED STATIC LATERAL STABLETTY OF MX-1764 AIRCRAFT HAGA-RM-SL54C12 06-03 06-03
BOUNDARY LAYER CHARACTERISTICS OF FUSELAGES OF VARIOUS CROSS SECTIONAL SHAPES AT STATIC PRESSURE NACA-RM-L96119 N63-12939 D6-02	PERFORMANCE AND STATIC STABILITY OF SUPERSONIC AIRCRAFT COMPIGURATION MITH LIFT INTERFERENCE MASA-MEMO-1-8-59A MG3-12912 07-02
STATIC PRESSURE & STAGNATION PRESSURE CALIBRATION DATA FOR DEFINING POSITION ERRORS OF AIRSPEED- ALTITUDE SYSTEMS OF X-15 AIRCRAFT MASA-TN-D-1724 07-15	STATIC STABILITY OF SQUARE AND CIRCULAR PLANFORM REENTRY VEHICLES AT MACH 3-11 - EFFECTS OF CONTROLS AND LEADING-EDGE EXTENSIONS MASA-TH-X-272 07-02

SI

WIND TUNNEL TESTS OF STATIC STABILITY OF MODEL X-1E AIRCRAFT AT MACH 2 TO 4	HOVERING CHARACTERISTICS OF ROTOR HAVING AIRFOIL SECTION DESIGNED FOR UTILITY TYPE HELICOPTER
NASA-TH-X-5 N63-12974 07-	
STATIC STABILITY INVESTIGATION OF SUPERSOMIC NONLIFTING REENTRY VEHICLE NASA-MEND-3-2-59L N63-14757 11-	STATION SA METEOROLOGICAL STATION SA SPACE STATION SA SPACE STATION
WIND-TUNNEL INVESTIGATION OF LONGITUDINAL AND LATERAL AERODYNAMIC CHARACTERISTICS OF HYPERSONI	GROUND STATIONS, CHANNEL SPACING, INTERFERENCE, HARMONICS N63-13728 08-08
GLIDER WITH SEVERAL BODSTER CONFIGURATIONS NASA-TM-X-345 N63-16137 13-	FREQUENCY ASSIGNMENT FOR COMMUNICATION SATELLITE
STATIC STABILITY TEST ON .098 SCALE STANDARD LAUNCH VEHICLE SLV-IB WITH 4-SQUARE-FOOT FIN ARE AFSMC-TDR-63-21 N63-16897 14-	M63-15048 11-08 EA -04 THIRD TIROS GROUND STATION OPERATIONS - COMMAND
EFFECT OF VERTICAL TAIL MODIFICATIONS ON STATIC STABILITY OF VIOL SUPERSONIC AIRCRAFT	AND DATA ACQUISITION STATION /CDA/ N63-21990 22-21
NASA-TM-X-519 N63-17165 15- EFFECT OF STATIC STABILITY, PITCH DAMPING, ROLL TRIM ANGLE ON HYPOTHETICAL NOSE CONE REENTRY	CAPABILITIES OF ELECTRIC PROPULSION FOR ATTITUDE
VEHICLE CARDE-TN-1559/63 N63-17179 15-	ARS PAPER-2666-62 N63-11270 03-29
STATIC STABILITY CHARACTERISTICS OF SEVERAL CONE CYLINDER/FLARE-CYLINDER CONFIGURATIONS RF-TR-63-14 N63-17592 16-	MULTIPLE TIME SERIES
PARENTE P/ 0.2 - F2 F5 T LL (LL) (2005)161 NY2.10	TR WHOTEMER IS ELECTRICILL
NIND TUNNEL INVESTIGATION OF STATIC AND DYNAMIC- ROTARY STABILITY DERIVATIVES OF FLAT-TOP WING BO NASA-TM-X-361	DDY N63-12658 06-12 -02
STATIC STABILITY EVALUATION OF MERCURY CAPSULE I WIND TUNNEL AT TRANSONIC, SUPERSONIC AND HYPERSONIC SPEED	
NASA-TM-X-433 N63-18038 16-	PREDICTION BY STATISTICAL ANALYSIS
SUBSONIC, STATIC & DYNAMIC STABILITY OF FLAT PLA DELTA WING WITH LEADING EDGE SWEEP ANGLE OF 70 T	
84-DEG NASA-TN-D-1822 N63-18129 16-	STATISTICAL ANALYSIS — ANALYSIS OF VARIANCE, O3 REPEATED MEASUREMENTS DESIGN, DUAL CLASSIFICATION AND DISPROPPRIIONATE SUBCLASS NUMBERS
WIND TUNNEL STUDY OF PARACHUTE CLUSTERING - STAT STABILITY & DRAG COEFFICIENT OF MULTIPLE CANOPIE ASD-TDR-63-159 N63-18332 17-	STATISTICAL METHODS FOR PREDICTION OF SAFE
STATIC LATERAL AND LONGITUDINAL STABILITY CHARACTERISTICS OF MODELS OF BLUE SCOUT AND	AIRCRAFT FATIGUE LIFE RAG-1147 N63-13745 08-33
BLUE SCOUT, JR. RESEARCH VEHICLES NASA-TN-D-1931 N63-18468 17-	-02 ASYMPTOTIC METHOD OF STATISTICAL ANALYSIS WITH TWO-SAMPLE PROBLEM N63-14795 11-20
STATIC AND DYNAMIC STABILITY OF SELF-ACTING GAS LUBRICATED JOURNAL BEARINGS AT MODERATE COMPRESSIBILITY NUMBERS	STATISTICAL METHOD OF ANALYSIS FOR STRUCTURAL RELIABILITY OF HELICOPTER COMPONENTS N63-15624 12-33
NASA-CR-50739 N63-18996 18- WIND-TUNNEL MEASUREMENT OF PROPELLER WHIRL-FLUTT	STATISTICAL ANALYSIS OF A BAR IN TENSION SER ASD-TDR-62-379 YEAR STATE N63-15827 13-33
SPEEDS AND STATIC-STABILITY DERIVATIVES AND COMPARISON WITH THEORY NASA-TN-D-1807 N63-19652 19-	EXPERIMENTAL VERIFICATION OF VIBRATION CHARACTERISTICS USING STATISTICAL TECHNIQUES - FLIGHT VEHICLES M63-16091 13-33
STATIC & DYNAMIC STABILITY OF MERCURY REENTRY CAPSULE SCALE MODELS AT MACH 3 & 9.5 NASA-TM-X-373 NASA-TM-X-373	DEVELOPMENT AND STATISTICAL ANALYSIS EVALUATION OF
V/TOL AIRCRAFT FLIGHT TEST WITH UNSHROUDED	THE TYPE STEEL THE PARTY HOSTUTITEDUS RAJULT-TRAUC
PROPELLERS - STATIC & DYNAMIC STABILITY DURING HOVERING & FLYING NASA-TN-D-1965 N63-20607 20-	STATISTICAL ANALYSIS OF HOT CHANNEL FACTORS FOR COMPACT SNAP REACTORS N63-18884 18-23
STATIC TESTING SEA-LEVEL STATIC TESTING OF TURBOJET ENGINE	SIMULTANEOUS MISSILE LAUNCHING - STATISTICAL
AFTERBURNER NACA-RN-E54B18 N63-14760 11-	ANALYSIS NASA-CR-50764 N63-19784 19-16
APPLIED LOAD RATIOS TO SIMULATE ELEVATED TEMPERATURE STATIC TESTS AT ROOM TEMPERATURE NA-62H-973 00-20170 20-	STATISTICAL AMALYSIS OF MISSILE LAUNCHING NASA-CR-50615 19-10
RATIONAL USE FOR FLUTTER CALCULATION VALUES FOUNDS BY STATIC-VIBRATION TESTING N63-22267 23-	STATISTICAL ANALYSIS OF GERMAN AIRPORT TRAFFIC REQUIREMENTS IN EUROPEAN AIR TRAFFIC SYSTEM
STATEC THRUST PROPELLER SLIPSTREAM EFFECTS AS DETERMINED FROM	PREDICTION OF ROCKET VEHICLE ENVIRONMENT - STATISTICAL ANALYSES OF STRUCTURAL CONFIGURATION
WING PRESSURE DISTRIBUTION OF A LARGE-SCALE SIX-PROPELLEN VIOL HODEL AT STATIC THRUST NASA-TN-D-1509 N63-10533 01-	IN VIBRATION NASA-TN-D-1836 N63-21889 22-31

0

2

STATISTICAL AMALYSIS METHODS FOR EARTH ELECTRO- MAGNETIC FIELD VARIATIONS - GEOMAGNETISM N63-21943 22-12	PROBABILITY DISTRIBUTION AT OUTPUT OF LOGARITHMIC RECEIVER UNDER BAND-LIFITED WHITE NOISE AND SIGNAL PLUS NOISE
TIME SCORE FOR PUSH BUTTON GPERATION - MULTIMODAL DISTRIBUTION BY STATISTICAL ANALYSIS - PSYCHOLOGICAL ENGINEERING STUDY AMRL-10R-63-29 23-14	PIEMRI-1087-62 7237 MAA JATEM 163-14228 00 09-20 STATISTICAL THEORY OF FEEDBACK CONTROL - ADAPTIVE ASYMPTOTIC METHOD PIBMRI-1108-62 10 MAX 319MAZ 2012 N63-14377 10-20
STATISTICAL CHARACTERISTICS OF FORCED VIBRATIONS OF ELASTIC AIRCRAFT WING ACTEO ON BY ATMOSPHERIC TURBULENCE FID-T1-83-750/162	PROPERTIES OF PROBABILITY DISTRIBUTIONS WITH MONOTONE HAZARD RATE DI-82-0148 N63-14656 #010-20
APPLICATION OF STATISTICAL THEORIES OF STRENGTH TO METAL-CERAMIC MATERIALS FTD-TT-62-1765/162 N63-23733 24-19	PROBABILITY THEORY APPLIED TO RELIABLE NETWORK DESIGN - REDUNDANT SYSTEMS AND FATLURE NODES - 3 STATISTICS - 3 STATISTICS - 4463-148511111-09
ATISTICAL DECISION THEORY	ESTIMATION AND TESTING OF PARAMETERS OF DISTRIBUTIONS BY ORDER STATISTICS - MATHEMATICAL
ATISTICAL MECHANICS F CONTINUUM MECHANICS COVVERGENT CLASSICAL KINETIC EQUATION FOR PLASMA MATT-158 N63-13504 08-24	NOV-MARKOVIAN STOCHASTIC FODELS APPLIED TO INTERRET CLINICAL MEDICINE - BIOSTATISTICS
STATISTICAL CELESITAL MECHANICS - DENSITY DISTRIBUTION FUNCTION NASA-TH-X-50022 N63-16709 14-29	MAC-385 LAUNCHING PAD OPERATIONS FOR MISSILES - STATISTICAL PROBABILITY AND PRELAUNCH PROBLEMS JPL-TR-32-431, PT. I N63-16445 14-30
FOUNDATIONS OF NONEQUILIBRIUM STATISTICAL	JPL-TR-32-431, PT. 1 N63-16445 *014-30 STATISTICS OF METEORS *** A412210 N63-16652 *** 114-05
ARAP-49, PT. 1 N63-17241 15-20 FOUNDATIONS OF NONEQUILIBRIUM STATISTICAL	METEOR STATISTICS - ORBITAL ELEMENTS WAS 111 MUST A MUST 16659 16-05
MECHANICS ARAP-49, PT. II N63-17242 15-20	STATISTICAL PROPERTIES OF TURBULENCE IN THE COMER ATMOSPHERE N63-16816 14-11
PHILOSOPHY OF IRREVERSIBLE DYNAMICS - FOUNDATIONS OF NONEQUILIBRIUM STATISTICAL MECHANICS ARAP-7-P-1 N63-17576 16-20	STATISTICS IN ELECTRONIC EQUIPMENT AND CIRCUIT ANALYSIS - DESIGN BADC-BAS-TM-A3-3
KINETICS OF NONEQUILIBRIUM STATISTICAL MECHANICS ARAP-7-P-2	RADC-RAS-TM-63-3 N63-16973 14-17 STATISTICAL INSTRUMENTATION STUDY - SIGNAL UP - PROBABILITY ANALYZER
GAS DYNAMICS - NONEQUILIBRIUM STATISTICAL MECHANICS - NONEQUILIBRIUM STATISTICAL MECHANICS - NONEQUILIBRIUM STATISTICAL NO.3-21563 22-11	RADC-TDR-69-136 N63-17118 15-20 RELIABILITY TESTING - STATISTICAL CIRCUIT ANALYSIS
ATISTICS A BAYESIAN STATISTICS ARBUST MANY CONTAIN MUTUUP A BOSE-EINSTEIN STATISTICS ARBUST MANY CONTAINS A FERNI-DIRAC STATISTICS A FERNI-DIRAC STATISTICS	NOS-17300 15-20 NUCLEAR WEAPONS - EQUATION OF STATE AT HIGH PRESSURE BY STATISTICS 463-17323 15-23
A FERRI STATISTICS A MATHEMATICAL STATISTICS BATTERIOT MARTE A PARASTATISTICS F BIOMETRICS F BIOMETRICS F NULL MYPOTHESIS	STATISTICAL DESIGN OF EXPERIMENTS IN METALLURGICAL RESEARCH 8M-RI-6232 N63-17621 16-18
ORDER STATISTICS AND DESIGN OF EXPERIMENTS -	STATISTICAL PROBABILITY FOR RELIABILITY OF SAMPLE LIFE - WETCHL DISTRIBUTION N63-17724 16-20
AROD-2763-12 N63-10156 01-20 STATISTICAL DESIGN - OPTIMIZING BY MINIMIZING A LOSS FUNCTION ARL-62-373, PT. 1 M63-10287 01-20	STATISTICS DESCRIBING THE KINETIC ENERGY AND MOMENTUM TRANSPORT DISTRIBUTIONS OF WIND AS FUNCTIONS OF WAVE NUMBER N63-19563 19-21
STATISTICAL METHOD IN THE NONLINEAR THEORY OF	STATISTICS ON THE MODES OF RELEASE OF AVAILABLE POTENTIAL ENERGY IN THE ATMOSPHERE M63-19565 19-21
NASA-TT-F-85 N63-10532 01-33 OPTIMAL DESIGN OF EXPERIMENTS - STATISTICS N63-11162 03-20	STATISTICAL PARAMETERS IN PLANNING AIRCRAFT ENGINE PRODUCTION TO COA-15847 TABLE COA-114404 Nob-2002104 19-01
PERCENTILE POINTS OF GRDER STATISTICS N83-11666 04-20	STATISTICAL OPERATORS FOR PREDICTING LOW CLOUDS AND CLOUD BASE HEIGHTS N63-20263 20-21
EXPONENTIAL AND RECTANGULAR STATISTICAL POPULATION DETERMINED BY MANN-WHITNEY-WILCOXON U TEST M63-11699 04-20	DEFICIENT USE OF VARIOUS CORPUTERS - ACCOUNTING AND STATISTICS IN RUSSIA JPRS-20566 483-20327 20-17
HANDBOOK OF AIRLINE STATISTICS - 1962 EDITION N63-12665 06-04	MATHEMATICAL STATISTICS AND PROBABILITY THEORY - GAMMA, EXPONENTIAL, AND PEARSON TYPE III DISTRIBUTION
IRREDUCIBLE REPRESENTATIONS OF GENERALIZED OSCILLATOR OPERATORS USED IN FIELD QUANTIZATION NYO-10253 N63-13322 07-23	ARL-63-100 A63-20909 21-20 PROBABILITY CHARACTERISTICS OF SENSOR OUTPUTS TO
PERTURBATION THEORY RULES FOR COMPUTING SELF- ENERGY OPERATOR IN QUANTUM STATISTICAL RECHANICS UCRL-10562 M63-13565 G8-23	REFUCE REDUNDANT INFORMATION TRANSMISSION 22-20 STATISTICAL DISTRIBUTION OF SIGNALS OF SIMPLE

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ALIGNATURE CONTRACTOR AND ANALYSIS OF THE PARTY OF THE PA	
COMPENSATORY MANUAL CONTROL SYSTEM ASD-TDR-63-85 N63-22390 23-06	STEADY STATE HEAT TRANSFER MEASURING INSTRUMENT NASA-CR-50626 N63-18668 18-02
TWO SAMPLE SEQUENTIAL RANK TEST STATISTICAL METHOD FOR POPULATION TESTING N63-23085 24-20	CODE FOR COMPUTING TRANSIENT OR STEADY STATE TEMPERATURE DISTRIBUTIONS - IBM 7090 COMPUTER PROGRAM
ESTIMATION OF PARAMETERS IN MIXTURES OF DISCRETE DISTRIBUTION USING SAMPLE MOMENTS AND ZERO	K-1494 N63-23242 24-13
FREQUENCIES - POISSON DISTRIBUTION 163-23426 24-20	SHALL PERTURBATION ANALYSIS OF STABILITY OF STEADY STATE BURNING OF PONDER IN SEMICLOSED SPACE FTO-TT-63-727/16264 N63-23365 24-13
STATOR CF GENERATOR CF IMPELLER CF TURBINE LINITATIONS ON TURBOJET ENGINE DESIGN BY TURBINES WITH DOWNSTREAM STATORS	SPACE AGE TECHNOLOGY APPLIED TO ASTRONONY - POSSIBILITY OF OBSERVATIONAL BASIS FOR RESOLVING STEADY-STATE VS. RELATIVISTIC COSMOLOGICAL THEORY N63-23451 24-05
NACA-RH-E54J14 N63-12507 06-27 HUB-TIP RADIUS RATIO TRANSONIC TURBINE FOR	STEAM VISCOSITY OF SUPERHEATED STEAM UP TO 275-DEG C 8R4-1-P N63-10092 01-13
SECONDARY FLOW — STATOR CONFIGURATIONS DESIGNED TO ELIMINATE BLADE WAXES AND SECONDARY—FLOW EFFECTS NACA—RN—E57608 OF-02	HEAT ADDITION IN THE EMPIRICAL CORRELATION OF VOID FRACTIONS FOR STEAM-WATER FLOW
HUB-TIP RADIUS RATIO TRANSONIC TURBINE FOR	MASA-TH-D-1440 N63-10175 01-13
SECONDARY FLOW - TURBINE WITH LOW-VELOCITY TURNING STATOR AND STANDARD ROTOR NACA-RH-E57E09 N63-12547 06-02	INVESTIGATION OF UPSTREAM BOILING BURYOUT CONDITIONS HM-73902 REV N63-12724 DE-23
STEADY FLOW SHOCK CONDITIONS AND STRUCTURE OF SHOCK WAVES IN A STEADY FLOW OF DISSIPATIVE FLUID	ZIRCONIUM ALLOYS FOR STEAM SERVICE NUCLEAR REACTORS - CORROSION TESTING - FABRICATION GEAP-4139 M63-17427 15-18
ONERA-105 N63-10739 02-11	METAL CORROSION OF ZIRCONIUM ALLOYS IN WATER AND
INCOMPRESSIBLE FLOW - A RHEOLOGICAL EQUATION AND PROBLEMS IN STEADY FLOW	STEAM AT HIGH TEMPERATURE AND PRESSURE AECL-1724 AECL-1724
COA-N-134 N63-11287 03-11	THERMOCONDUCTIVITY OF STEAM UNDER PRESSURE -
EXACT SOLUTIONS FOR TWO-DIMENSIONAL HYDROMAGNETIC STEADY STATE FLOM	SQUID PROJECT MIT-32-P N63-19167 18-13
01-82-0170 N63-15467 14-24	ZIRCONIUM BASE ALLOY FOR NUCLEAR FUEL CLADDING IN
STEADY STATE CF EQUILIBRIUM	STEAM ENVIRONMENT GEAP-4211 N63-21259 21-18
STEACY STATE HEAT CONDUCTION IN A CIRCULAR CONE MRC-347 03-20	STEAM GENERATOR STABILITY IN GLASS MODEL STEAM GENERATOR - FLOW
DCX-2 PERFORMANCE CURVES - STEADY STATE ION DENSITY VERSUS INJECTED CURRENTS DRNL-3387 N63-12258 05-24	OSCILLATIONS N63-11938 04-23 SODIUM HEATED STEAM GENERATOR AND SODIUM COOLED
STEADY-STATE FLUX OF MASS & ENERGY AT SOLID	REACTORS/LIQUID METAL COOLED REACTOR/
CATALYTIC SURFACE DUE TO HETEROGENEOUS RECOMBINATION OF HYDROGEN ATOMS - SQUID PROJECT SRI-14-P N63-12305 05-07	TID-18072 STEAM TURBINE MATERIALS FOR STEAM TURBINES
STEADY STATE IN COMPETITIVE-CONSECUTIVE GAS	FTO-TT-62-1273/16264 N63-13583 08-18
REACTION - CHEMICAL KINETICS PSU-10-P N63-13919 09-07	STEEL STEEL STEEL STEEL STEEL STEEL
FORTRAM PROGRAM FOR SOLVING TWO-DIMENSIONAL MEUTROM DIFFUSION PROBLEM - STEADY STATE VERSION -	SA BAINITIC STEEL SA HIGH STRENGTH STEEL SA MARAGING STEEL
PDQ-5 PRCGRAM WAPO-TM-363 N63-13933 09-20	SA STAINLESS STEEL
STEADY-STATE DIFFRACTION OF ELECTROMAGNETIC RADIATION BY OBSTACLES IN INHOMOGENEOUS,	CF ALLOY CF CARBIDE CF FERRITE
ANISOTROPIC, CONDUCTING MEDIA MAC-388 N63-15938 13-24	CF IRON ALLOY ENGINEERING PROPERTIES OF MAR-STRAINED STEELS ASD-TOR-62-230 N63-10294 01-18
STEADY-STATE, STAGNATION-POINT, HEAT TRANSFER RATE MEASURING DEVICE NASA-TH-D-1704 N63-15957 13-15	METALLURGICAL AND NETALLOGRAPHIC INVESTIGATIONS FTD-TT-62-134/1 N63-10520 01-18
TE-DE TRANSPORTE TO THE PERSON NAMED AND ADDRESS OF THE PERSON	FE-HERMANNERSCHIEL - AND CHARLES - LANGE - STREET - CANADA - CANAD
STEADY-STATE BEHAVIOR OF MONLINEAR CONTROL SYSTEM OPERATING IN LIMIT CYCLING MODE WHEN SUBJECTED TO SINUSCIDAL INPUTS	USE OF DEPLETED URANIUM IN BEARING ALLOYS AND LOW-ALLOY STEELS TID-8212 N63-10659 02-17
PICHRI-1101-62 M63-16832 14-06	CREEP TORSION OF SAE 1020 STEEL BARS
COMPARISON OF STEADY-STATE AND SIX-DEGREE-OF- FREEDOM ANALYSIS OF PITCH-ROLL RESONANCE CONDITIONS FOR LONG SLENDER SOUNDING ROCKET	TEAM-208 N63-10717 02-33 INTERSTITIAL INDUCED DELAYED FAILURE OF STEEL
N63-16992 15-32	ARL-62-425 1 173 (D. 2011/14/2021 N63-10742 1 02-33
REFINEMENT OF QUASI-STEADY-STATE APPROXIMATION IN CHEMICAL REACTION KINETICS BY SINGULAR PERTURBATION ANALYSIS	GAMMA RADIATION CURVES FOR STEEL, ALUMINUM AND URANIUM EUR-103-F 02-23
MASA-CR-50226 M63-17730 16-07	PROPERTY OF THE PROPERTY OF THE PARTY OF THE
THE STREET STREET OF THE THE STONARD OF STONARD STREET	EFFECT OF COMPRESSIVE PRESTRAIN ON FRACTURE

TOUGHNESS OF S.A.E. 4340 STEEL	N63-10891	02-33
EFFECT OF TEMPERATURE AND STRAIN	RATE ON CRA	
TEAH-235	N63-10892	02-33
ELECTRON BEAM WELDING FOR HIGH-	STRENGTH STEE N63-10896	02-17
STEELS FOR LARGE SOLID-PROPELLAR	NT ROCKET MOT	OR
CASES DMIC-178	N63-11120	03-27
STEELS FOR HIGH TEMPERATURE AND APPLICATIONS	HIGH PRESSUR N63-11176	E 03-18
FORGING OF HEAT RESISTANT STEEL A10-62-205	DISKS N63-11732	04-17
ELECTRON BEAM WELDING - TITANIUM	ALLOYS - ST N63-12105	EELS 05-17
METHODS FOR PREVENTING GALVANIC BETWEEN MAGNESIUM AND STEEL	VALUE OF THE PARTY	
CCL-136	N63-12373	06-07
LUBRICATION CHARACTERISTICS OF LIQUID OXYGEN IN ROCKET ENGINES HASA-TN-D-1580	BEARING STEEL N63-12591	SELANCTIVE
The same half of a case of the same and a case of the same and the sam		
STRESS, CORROSION, AND CRACKING MLOYS - TITANIUM ALLOY, NICKEL	OF HIGH STRE STEEL N63-13472	08-18
FACTORS DETERMINING APPLICABILITY		DENCTH
QUENCHED AND TEMPERED STEELS TO CONSTRUCTION	SUBMARINE HU	LL
NRL-5892	N63-13492	08-34
RANDOM EXCITATION OF STEEL PANE FLUCTUATIONS, GRAZING INCIDENCE WAYES AND NOISE FROM AIR JET	, ACOUSTIC PL	AYER
AASU-231	N63-13495	08-33
PERSHING MOTOR CASE CLOSURE FROM	H 18 PCT. NIC	KEL-
COBALT-HOLYBDENUM MAR-AGING STE MATERIALS N-G-80-62-156	EL - AIRFRAME	Ch-117
COBALT-MOLYBDENUM MAR-AGING STE MATERIALS W-G-RD-62-156	N63-13654	08-34
COBALT-HOLYBDENUM MAR-AGING STE MATERIALS N-G-80-62-156	EL - AIRFRAME N63-13654 HIGH TEMPERA	08-34
COBALT-MOLYBDENUM MAR-AGING STE MATERIALS U-G-RD-62-156 NEW CORROSION, HEAT-RESISTANT 6 STEELS AND ALLOYS IN THE SOVIET JPS-13978	EL - AIRFRAME N63-13654 HIGH TEMPERA UNION N63-13822	08-34 TURE 09-18
COBALT-MOLYBDENUM MAR-AGING STE MATERIALS MG-RD-62-156 NEW CORROSION, HEAT-RESISTANT 6 STEELS AND ALLOYS IN THE SOVIET JRS-13978 AGING RESPONSE OF NICKEL-COBALT WAL-TR-320.1/11	N63-13654 HIGH TEMPERA UNION N63-13822 -HOLYBDENUM S N63-14225	08-34 TURE 09-18 TEEL 09-18
COBALT-MOLYBDENUM MAR-AGING STE MATERIALS U-G-RD-62-156 NEW CORROSION, HEAT-RESISTANT 6 STEELS AND ALLOYS IN THE SOVIET JPRS-13978 AGING RESPONSE OF NICKEL-COBALT MAL-TR-320-11/11 TERSILE STRENGTH AND ELONGATION	N63-13654 HIGH TEMPERA UNION N63-13822 -MOLYBDENUM S N63-14225 PROPERTIES C	08-34 TURE 09-18 TEEL 09-18
COBALT-MOLYBDENUM MAR-AGING STE MATERIALS MG-RD-62-156 NEW CORROSION, HEAT-RESISTANT 6 STEELS AND ALLOYS IN THE SOVIET JRS-13978 AGING RESPONSE OF NICKEL-COBALT WAL-TR-320.1/11	N63-13654 HIGH TEMPERA UNION N63-13822 -HOLYBDENUM S N63-14225 PROPERTIES C ANTUM ALLOYS	08-34 TURE 09-18 TEEL 09-18
COBALT-MOLYBDENUM MAR-AGING STE MATERIALS MEW CORROSION, HEAT-RESISTANT 6 STEELS AND ALLOYS IN THE SOVIET JPRS-13978 AGING RESPONSE OF NICKEL-COBALT MAL-TR-320.1/11 TEMSILE STRENGTH AND ELONGATION STEEL, NICKEL, ALUMINUM AND TIT	N63-13654 HIGH TEMPERA UNION N63-13822 -HOLYBDENUM S N63-14225 PROPERTIES C ANTUM ALLOYS	08-34 TURE 09-18 TEEL 09-18
COBALT-MOLYBDENUM MAR-AGING STEMATERIALS U-G-RO-62-156 NEW CORROSION, HEAT-RESISTANT 6 STEELS AND ALLOYS IN THE SOVIET JRS-13978 AGING RESPONSE OF NICKEL-COBALT WAL-TR-320-1/11 TEMSILE STRENGTH AND ELONGATION STEEL, NICKEL, ALUMINUM AND TIT LIQUID-NITROGEN AND FLUORINE EN NASA-TN-D-1706 BOUNDARY LAYER NOISE - THIN STE TURBULENT FLOM	N63-13654 HIGH TEMPERALUNION N63-13822 -HOLYBDENUM SN63-14225 PROPERTIES CANTUM ALLOYS VIRONMENTS N63-14465 EL PLATES IN	08-34 ITURE 09-18 ITEEL 09-18 IF IN
COBALT-MOLYBDENUM MAR-AGING STE MATERIALS W-G-RD-62-156 NEW CORROSION, HEAT-RESISTANT 6 STEELS AND ALLOYS IN THE SOVIET JPRS-13978 AGING RESPONSE OF NICKEL-COBALT MAL-TR-320-1/11 TERSILE STRENGTH AND ELONGATION STEEL, NICKEL, ALUMINUM AND TIT LIQUID-NITROGEN AND FLUORINE EN MASA-TN-D-1706 BOUNDARY LAYER NOISE - THIN STE	N63-13654 HIGH TEMPERA UNION N63-13822 -MOLYBDENUM N63-14225 PROPERTIES CANTUM ALLOYS VIRONMENTS N63-14405	08-34 TURE 09-18 TEEL 09-18 IF
COBALT-MOLYBDENUM MAR-AGING STE MATERIALS U-G-RD-62-156 NEW CORROSION, HEAT-RESISTANT 6 STEELS AND ALLOYS IN THE SOVIET JPRS-13978 GING RESPONSE OF NICKEL-COBALT MAL-TR-320-1/11 TERSILE STRENGTH AND ELONGATION STEEL, NICKEL, ALUMINUM AND TIT LIQUID-NITROGEN AND FLUORINE EN MASA-TN-D-1706 BOUNDARY LAYER NOISE - THIN STE TURBULENT FLOW UTIA-87 MACHINING OF REFRACTORY METALS TANTALUM-TUNGSTEN, MOLYBOENUM-T	N63-13654 HIGH TEMPERA UNION N63-13822 -HOLYBDENUM N63-14225 PROPERTIES CANTUM ALLOYS VIRONMENTS N63-14405 EL PLATES IN N63-14834 - TUNGSTEN,	08-34 VTURE 09-18 STEEL 09-18 OF IN 10-18
COBALT-MOLYBDENUM MAR-AGING STE MATERIALS MEG-RO-62-156 NEW CORROSION, HEAT-RESISTANT 6 STEELS AND ALLOYS IN THE SOVIET JPRS-13978 AGING RESPONSE OF NICKEL-COBALT MAL-TR-320.1/11 TEMSILE STRENGTH AND ELONGATION STEEL, NICKEL, ALUMINUM AND TIT LIQUID-NITROGEN AND FLUORINE EN MASA-TN-D-1706 BUNDARY LAYER NOISE - THIN STE TURBULENT FLOM UTIA-87 MACHINING OF REFRACTORY METALS TANTALUM-TUNGSTEN, MOLYBDENUM-T STEEL	N63-13654 HIGH TEMPERALUNION N63-13822 -HOLYBDENUM SN63-14225 PROPERTIES CANTUM ALLOYS VIRONMENTS N63-14405 EL PLATES IN N63-14834 - TUNGSTEN, ITANIUM ALLOYS	08-34 NTURE 09-18 STEEL 09-18 FIN 10-18
COBALT-MOLYBDENUM MAR-AGING STE MATERIALS MEW CORROSION, HEAT-RESISTANT 6 STEELS AND ALLOYS IN THE SOVIET JRS-19978 AGING RESPONSE OF NICKEL-COBALT MAL-TR-320-1/11 TERSILE STRENGTH AND ELONGATION STEEL, NICKEL, ALUMINUM AND TIT LIQUID-NITROGEN AND FLUORINE EN MASA-TN-D-1706 BOUNDARY LAYER NOISE - THIN STE TURBULENT FLOM UTIA-87 MACHINING OF REFRACTORY METALS TANTALUM-TUNGSTEN, MOLYBDENUM-T STEEL ASD-TR-7-532A/V/ MACHINING OF REFRACTORY MATERIA	HIGH TEMPERAL UNION NG3-13822 -HOLYBDENUM SNG3-14225 PROPERTIES CANTUM ALLOYS VIRONMENTS NG3-14405 EL PLATES IN NG3-14834 - TUNGSTEN, ITANIUM ALLOY NG3-14882 LS, HIGH	08-34 NTURE 09-18 STEEL 09-18 IN 10-18
COBALT-MOLYBDENUM MAR-AGING STEMATERIALS MEW CORROSION, HEAY-RESISTANT 6 STEELS AND ALLOYS IN THE SOVIET JPRS-13978 AGING RESPONSE OF NICKEL-COBALT MIL-TR-320.1/11 TEMSILE STRENGTH AND ELONGATION STEEL, NICKEL, ALUMINUM AND TIT LIQUID-NITROGEN AND FLUORINE EN MASA-TN-D-1706 BUNDARY LAYER NOISE - THIN STE TURBULENT FLOM UTIA-87 MACHINING OF REFRACTORY METALS TANTALUM-TUNGSTEN, MOLYBDENUM-T STEEL ASD-TR-7-532A/V/ MACHINING OF REFRACTORY MATERIA TEMPERATURE ALLOYS, MIGH STRENA TEMPERATURE ALLOYS, MIGH STEEL TITANIUM AND MOLYBDENUM SHEETS	HIGH TEMPERA M63-13654 HIGH TEMPERA UNION M63-13822 -HOLYBDENUH S M63-14225 PROPERTIES C ANTUM ALLOYS VIRONMENTS N63-14405 EL PLATES IN M63-14834 - TUNGSTEN, ITANIUM ALLOY M63-14882 LS, HIGH TH STEEL, ANT	08-34 NTURE 09-18 STEEL 09-18 IN 10-18
COBALT-MOLYBDENUM MAR-AGING STEMATERIALS "G-RO-62-156 NEW CORROSION, HEAT-RESISTANT 6 STEELS AND ALLOYS IN THE SOVIET JPRS-13978 GING RESPONSE OF NICKEL-COBALT WALTR-320.1/11 TEMSILE STRENGTH AND ELONGATION STEEL, NICKEL, ALUMINUM AND TIT LIQUID-NITROGEN AND FLUORINE EN MASA-TN-D-1706 BOUNDARY LAYER NOISE - THIN STE TURBULENT FLOW UTIA-B7 MACHINING OF REFRACTORY METALS TANTALUM-TUNGSTEN, MOLYBDENUM-T STEEL ASD-TR-7-532A/V/ MACHINING OF REFRACTORY MATERIA TEMPERATURE ALLOYS, HIGH STRENG TITANTALUM AND MOLYBDENUM SHEETS ASD-TR-7-532A/IX/	HIGH TEMPERALUNION M63-13822 -HOLYBDENUM SM63-14225 PROPERTIES CANTUM ALLOYS VIRONMENTS N63-14405 EL PLATES IN N63-14834 - TUNGSTEN, ITANIUM ALLOY N63-14882 LS, HIGH TH STEEL, AND	08-34 NTURE 09-18 STEEL 09-18 IN 10-18 11-33 SS AND 11-18
COBALT-MOLYBDENUM MAR-AGING STEMATERIALS MEW CORROSION, HEAY-RESISTANT 6 STEELS AND ALLOYS IN THE SOVIET JPRS-13978 AGING RESPONSE OF NICKEL-COBALT MIL-TR-320.1/11 TEMSILE STRENGTH AND ELONGATION STEEL, NICKEL, ALUMINUM AND TIT LIQUID-NITROGEN AND FLUORINE EN MASA-TN-D-1706 BUNDARY LAYER NOISE - THIN STE TURBULENT FLOM UTIA-87 MACHINING OF REFRACTORY METALS TANTALUM-TUNGSTEN, MOLYBDENUM-T STEEL ASD-TR-7-532A/V/ MACHINING OF REFRACTORY MATERIA TEMPERATURE ALLOYS, MIGH STRENA TEMPERATURE ALLOYS, MIGH STEEL TITANIUM AND MOLYBDENUM SHEETS	HIGH TEMPERA M63-13654 HIGH TEMPERA UNION M63-13822 -NOLYBDENUM S M63-14225 PROPERTIES C ANTUM ALLOYS VIRONMENTS N63-14405 EL PLATES IN N63-14405 EL PLATES IN N63-14484 - TUNGSTEN, ITANIUM ALLOY N63-14882 LS, HIGH TH STEEL, AND M63-14886 ANSYERSE DUCT	08-34 NTURE 09-18 TTEEL 09-18 IN 10-18 11-33 TS AND 11-18
COBALT-MOLYBDENUM MAR-AGING STE MATERIALS U-G-RD-62-156 NEW CORROSION, HEAT-RESISTANT 6 STEELS AND ALLOYS IN THE SOVIET JPRS-13978 GING RESPONSE OF NICKEL-COBALT MAL-TR-320-1/11 TERSILE STRENGTH AND ELONGATION STEEL, NICKEL, ALUMINUM AND TIT LIQUID-NITROGEN AND FLUORINE EN MASA-TN-D-1706 BOUNDARY LAYER NOISE - THIN STE TURBULENT FLOW UTIA-67 MACHINING OF REFRACTORY METALS TANTALUM-TUNGSTEN, MOLYBDENUM-T STEEL ASD-TR-7-532A/VJ REFRECT OF MELTING PROCESS ON TR OF H-11 SYEEL AT HIGH STRENGTH ASD-TR-7-678/111/	HIGH TEMPERA M63-13654 HIGH TEMPERA UNION M63-13822 -HOLYBDENUM M63-14225 PROPERTIES O ANTUM ALLOYS VIRONMENTS EL PLATES IN M63-14804 - TUNGSTEN, ITANIUM ALLOY M63-14882 LS, HIGH TH STEEL, AND M63-14886 ANSVERSE DUCT LEVELS M63-15177	08-34 NTURE 09-18 STEEL 09-18 IN 10-18 11-33 S AND 11-18 ILLITY 11-17
COBALT-MOLYBDENUM MAR-AGING STE MATERIALS "G-RD-62-156 NEW CORROSION, HEAT-RESISTANT 6 STEELS AND ALLOYS IN THE SOVIET JPRS-13978 GING RESPONSE OF NICKEL-COBALT MAL-TR-320-11/11 TERSILE STRENGTH AND ELONGATION STEEL, NICKEL, ALUMINUM AND TIT LIQUID-NITROGEN AND FLUORINE EN MASA-TN-D-1706 BOUNDARY LAYER NOISE - THIN STE TURBULENT FLOW UTIA-87 MACHINING OF REFRACTORY METALS TANTALUM-TUNGSTEN, MOLYBDENUM-T STEEL ASD-TR-7-532A/V/ MACHINING OF REFRACTORY MATERIA TEMPERATURE ALLOYS, HIGH STRENGTH ASD-TR-7-532A/IX/ EFFECT OF MELTING PROCESS ON TR OF H-11 SYEEL AT HIGH STRENGTH ASD-TR-7-678/III/ EFFECTS OF MELTING PROCESS ON TO TH-11 SYEEL AT HIGH STRENGTH	HIGH TEMPERALUNION M63-13822 -HOLYBDENUM SM63-14225 PROPERTIES CANTUM ALLOYS VIRONMENTS M63-14465 EL PLATES IN M63-14834 - TUNGSTEN, ITANIUM ALLOY M63-14882 LS, HIGH TH STEEL, AND M63-14886 ANSVERSE DUCT LEVELS M63-15177 RANSVERSE DUCT	08-34 NTURE 09-18 STEEL 09-18 II 10-18 11-33 S AND 11-18 III-17 TILLITY
COBALT-MOLYBDENUM MAR-AGING STE MATERIALS U-G-RD-62-156 NEW CORROSION, HEAT-RESISTANT 6 STEELS AND ALLOYS IN THE SOVIET JPRS-13978 GING RESPONSE OF NICKEL-COBALT MAL-TR-320-1/11 TERSILE STRENGTH AND ELONGATION STEEL, NICKEL, ALUMINUM AND TIT LIQUID-NITROGEN AND FLUORINE EN MASA-TN-D-1706 BOUNDARY LAYER NOISE - THIN STE TURBULENT FLOW UTIA-87 MACHINING OF REFRACTORY METALS TANTALUM-TUNGSTEN, MOLYBDENUM-T STEEL ASD-TR-7-532A/V/ MACHINING OF REFRACTORY MATERIA TENPERATURE ALLOYS, HIGH STRENG TITANIUM AND MOLYBDENUM SHEETS ASD-TR-7-532A/IX/ EFFECT OF MELTING PROCESS ON TR OF H-11 STEEL AT HIGH STRENGTH ASD-TR-7-678/III/ EFFECTS OF MELTING PROCESS ON T OF H-11 STEEL AT HIGH STRENGTH ASD-TR-7-678/III/ MACING REQUIREMENT OF PLASTICA	HIGH TEMPERA M63-13654 HIGH TEMPERA UNION M63-13822 -HOLYBDENUM S M63-14225 PROPERTIES C ANTUM ALLOYS VIRONMENTS M63-14405 EL PLATES IN M63-14405 EL PLATES IN M63-14884 - TUNGSTEN, ITANIUM ALLOY M63-14882 LS, HIGH TH STEEL, AND M63-14886 ANSVERSE DUCT LEVELS M63-15177 RANSVERSE DUCL LEVELS M63-15255	08-34 NTURE 09-18 STEEL 09-18 II 10-18 11-33 VS AND 11-18 IIIITY 11-17 TILLITY 12-18 WIDE-
COBALT-MOLYBDENUM MAR-AGING STE MATERIALS "G-RD-62-156 NEW CORROSION, HEAT-RESISTANT 6 STEELS AND ALLOYS IN THE SOVIET JPRS-13978 GING RESPONSE OF NICKEL-COBALT MAL-TR-320-11/11 TERSILE STRENGTH AND ELONGATION STEEL, NICKEL, ALUMINUM AND TIT LIQUID-NITROGEN AND FLUORINE EN MASA-TN-D-1706 BOUNDARY LAYER NOISE - THIN STE TURBULENT FLOW UTIA-87 MACHINING OF REFRACTORY METALS TANTALUM-TUNGSTEN, MOLYBDENUM-T STEEL ASD-TR-7-532A/V/ MACHINING OF REFRACTORY MATERIA TEMPERATURE ALLOYS, HIGH STRENGTH ASD-TR-7-532A/IX/ EFFECT OF MELTING PROCESS ON TR OF H-11 SYEEL AT HIGH STRENGTH ASD-TR-7-678/III/ EFFECTS OF MELTING PROCESS ON TO TH-11 SYEEL AT HIGH STRENGTH	HIGH TEMPERA M63-13654 HIGH TEMPERA UNION M63-13822 -HOLYBDENUM S M63-14225 PROPERTIES C ANTUM ALLOYS VIRONMENTS M63-14405 EL PLATES IN M63-14405 EL PLATES IN M63-14884 - TUNGSTEN, ITANIUM ALLOY M63-14882 LS, HIGH TH STEEL, AND M63-14886 ANSVERSE DUCT LEVELS M63-15177 RANSVERSE DUCL LEVELS M63-15255	08-34 NTURE 09-18 STEEL 09-18 II 10-18 II-33 SAND II-18 IILITY II-17 TILLITY I2-18 WIDE-

TOUGHNESS, CRACK FORMATION, AND NOTCHED AND UNNOTCHED MILD STEEL NRL-5776	SPECIMENS N63-15366	TH OF 12-18
STRESS CORROSION OF HIGH STRENGT ALLOYS - SIMULATED ENVIRONMENT	SCHOOL SECTIONS	的现在分词 一位
sur visco and direlida part	N63-15417	12-18
FRACTURE SURFACE CONFIGURATION O BY TEMPERATURE AND GEOMETRY WAL TR 320-1/10	F STEEL AFFEI	SACA STATE
PHYSICAL PROPERTY TEST ON HIGH-E	SYCESTAL MIDELINE	55P (OMERS 0.)
STEEL FORGING AMC-TR-7-866/111/	H63-15831	13-18
EFFECT OF SOLIDIFICATION VARIABLE		IPA:
PROPERTIES OF CAST STEEL - MICRO	ANALYZER N63-15854	460 70 350 71
NOTCH AND SHEAR PROPERTIES OF HE WAL-TR-766.5/2	AT TREATED S' N63-16183	TEEL 13-18
EPSILON-CARBIDE EFFECT ON PASSIV	HO3-16264	IN 13-18
EFFECT OF TWO-STEP HEAT TREATMEN IRRADIATION DURING QUENCHING ON	HARDENABILIT	YOF
AROD-2581-2	N63-16537	14-18
EFFECT OF STATIC & DYNAMIC LOADS ON YIELD STRESS OF IRON AND MILD AND COMPRESSION - STRUCTURAL DYN	STEEL IN TE	TURE NSION
2 1 - 12	N63-16605	14-18
METHODS FOR PREDICTING BRITTLE F TEMPERATURES OF ROLLED ARMOR STE VEHICLE DESIGN APPLICATIONS - ST	RUCTURAL DYN	AMICS 14-18
COMPARISON OF DYNAMIC AND STATIC YIELD STRESS OF STEEL GUN TUBES RATES — DYNAMIC TESTING APPARATU	TEST RESULT	ING
AMPEROMETRIC TITRATION TO DETERM OF VANADIUM IN STEELS AND CAST I WAL-TR-823-3/1	INE TRACE AM RONS H63-17022	OUNTS
WEATHER EXPOSURE DATA FOR HIGH TO COATINGS ON CHROMIUM HOT-WORK TO ASD-TOR-62-888		16-18
EFFECTS OF REPEATED LOADING AND FRACTURE TOUGHNESS AND GRACK GRO STEEL TEAM-245	MOISTURE ON OWTH IN SAE 4	1001145
AUSTENITE DECOMPOSITION IN WELDS	A CHARLES T DO	239312
WAL-TR-320-1/12 Town Wind AND	N63-17956	16-10
FATIGUE TESTS OF STEEL AND EFFECT	T ON FATIGUE	## 20065 PAG
ADN-02-01-62-1	N63-18094	16-18
RADIOTRACER STUDIES TO DETERMINE DISTAIBUTION OF CERIUM ADDITIONS EFFECT ON SULFIDE INCLUSIONS BM-RI-6256	FINAL TO STEEL AN	0 17-18
	LORE - MARKE	发展的一个大型的
FATIGUE CRACK SENSITIVITY AS FUN LOAD AND LOADING METHOD IN MOTOR SPECIMENS	NED STEEL SHE	18-33
IN-PILE RADIATION CORROSION EXPI ZIRCONIUM, TITANIUM, AND STEEL A SULFATE SOLUTIONS AT 200-DEG C ORNI-3099	RIMENTS WITH LLOYS IN URA N63-19077	5 2733500
LOW ALLOY STEEL RESPONSE TO THE TREATMENTS INVOLVING TAANSFORMAN	MOMECHANICAL TION TO BAINT N63-19843	TES
MULTIMETAL PROTECTIVE COATING PI COMPOSITE STEEL, MAGNESIUM AND RIA-63-1651	ocess ena	УСПИТВИ
EFFECT OF THICKNESS AND TEMPERAT	PARTY NAMED IN COLUMN TWO IS NOT THE OWNER.	

*

	the state of the s
FRACTURE TOUGHNESS OF STEEL SHEET N63-20003 19-18	FRITZ ENG. LAB297.3 N63-15332 12-31
FRACTURE TOUGHNESS OF STEEL SHEET BY CRACK PROPAGATION NETHODS NO3-20005 19-18	COMPARISON OF COST OF RIGID STEEL FRAMES FOR FLAT AND GABLED RCOF BUILDINGS Y-1418 N63-21898 22-34
LIGHTWEIGHT SINGLE STEEL FORGING CASE DESIGN FOR	STEERING
SOLID ROCKET MOTORS N63-20272 20-27	FREQUENCY STEERING OF RADIATION PATTERN OF
ELECTRON MICROSCOPIC STUDIES OF FRACTURES IN STEEL AND ALUMINUM ALLOYS	JPRS-17225 N63-12012 05-09
01-82-0169 N63-20368 20-18	STELLAR EVOLUTION EARLY SOLAR EVOLUTION N63-11415 03-29
DIES FOR EXTRUSION OF COMPLEX SHAPES OF STEEL AND REFRACTORY ALLOYS ASD-TDR-7-946/111/ N63-20414 20-17	COLLAPSE PHASE OF EARLY SOLAR EVOLUTION NASA-TN-D-1682 N63-12594 06-29
MORPHOLOGY OF BAINITE IN HYPOEUTECTOID STEEL N63-20430 20-18	SOLAR ORIGIN OF ATHOSPHERIC AND METEORIC XENON DETERMINED BY ISOTOPIC ANALYSIS
EFFECT OF BILLET HISTORY ON HOT EXTRUDED STEEL	NASA-TN-D-1685
PROPERTIES - TENSILE STRENGTH WAL-TR-310.22/3 N63-20461 20-18	NEUTRINO PROCESSES IN RED GIANT STELLAR EVOLUTION N63-14762 11-29
EFFECT OF SECTION SIZE ON BEND & NOTCH BEND STRENGTH OF ALUMINUM, METHYL METHACRYLATE, & STEEL MET-1078-863-11 N63-20674 20-33	COMPOSITION ANOMALY OF 3 CENTAURI A AND STELLAR EVOLUTION N63-15081 11-05
EMBRITTLEMENT RELIEF TREATMENT FOR ELECTROLESS	SOLAR NEBULA FROM IONIZATION OF INTERSTELLAR GAS - STAR FORMATION 10-10-10-10-10-10-10-10-10-10-10-10-10-1
NICKEL PLATED STEEL AND TOOL STEEL FTDM-3013 N63-21010 21-18	LUMINOSITY AND EVOLUTION OF MAIN-SEQUENCE STARS N63-15706 12-05
ACID CLEANING EFFECTS ON MECHANICAL PROPERTIES OF 17-4 PH STEEL - PROCESS CONTROL	ASTRONOMY - STARS, STELLAR EVOLUTION, AND EXTRA-
PCTR-4577 N63-21011 21-18	ASTRONONY - STAKS, STELLAR EVULUTION, AND EXTRA- GALACTIC RESEARCH NASA-CR-50230 N63-17792 16-05
CHARPY IMPACT STRENGTH OF F-111 STEEL FIDM-3130 21-18	STELLAR EVOLUTIONARY PROCESSES FROM THEORIES OF
ELECTROLYTIC MACHINING PROCESS FOR APPLICATION TO	LUMINOSITY - ASTRONOMY N63-17793 16-05
4140 ALLOY STEEL N63-21869 22-17	PREDICTION OF HIGH LUMINOSITY AND FULL CONVECTION OF EARLY CONTRACTING SUN
EVALUATION OF STEEL ALLOY - MAXELLOY A056 N63-21870 22-18	NASA-RP-7 N63-20934 21-05 MAGNETIC FIELDS - EFFECT AND VARIATION IN STELLAR
HYDROGEN EMBRITTLEMENT OF STEEL AFTER	EVOLUTION AND EQUILIBRIUM ARES-63-9 N63-21650 22-29
NICKEL-CADMIUM DIFFUSION PLATING - EFFECT OF DIFFUSION TIME INCREASE & STRESS RELIEF A057 N63-21871 22-18	PROPOSED EXPERIMENTS FOR GRAVITATIONAL INTERACTION DECAY - IMPLICATIONS FOR PLANETARY & STELLAR AGES
ADHESIVE BONDING OF STEEL TO ALUHINUM - TESTING OF	N63-23446 24-29
STRENGTH, ADHESIVE FLOW, BOND LINE THICKNESS AND BOLT TORQUE VALUES	PHOTOMETRIC STUDY OF ASTEROID, LUNAR MAP,
AU76 No3-21884 22-17	SPECTROPHOTOMETRY OF STARS AND PLANETS, AND ASTRONOMICAL PHOTOMETRY N63-15077 11-05
STRESS CORROSION OF HIGH STRENGTH HIGH CARBON	ASTRONOMY RESEARCH IN STELLAR AND SOLAR
SPDIR-26, SUPPL. I N63-23469 24-33	OBSERVATORIES N63-20727 21-05
COUPLING PERTAINING TO STEEL SPHERE IMPACTING THE	ULTRAVIOLET STELLAR SPECTROPHOTOMETRY ABOVE ATMOSPHERE BY AEROBEE ROCKET
ENDS OF RDDS OF VARIOUS MATERIALS NOTS-TP-3069 N63-14227 09-33	NASA-RP-105 N63-2295C 23-05
CREEP AND STRESS ANALYSIS OF TURBINE DISK MODELS AT HIGH TEMPERATURE IN STEEL TEST CHAMBER	STELLARATOR LECTURES ON FUSION POWER - PLASMA CONFINEMENT MATT-145 N63-10319 01-24
TIL/T-4957 N63-14725 11-33	USE OF MAGNETICALLY COMPRESSED PLASMA IN A
NAVY PROGRAM - RADIO ASTRONOMY - FRACTURE SAFE DESIGN OF STEEL STRUCTURE - PROGRESS REPORT	STELLARATOR MATT-133 N63-10361 01-24
N63-14736 11-05	PLASHA PHYSICS - STELLARATOR, AFTERGLOW, CHMIC
NEW PRINCIPLES FOR FRACTURE-SAFE DESIGN OF STEEL STRUCTURES N63-14738 11-34	HEATING MATT-Q-19 N63-11347 03-24
STEEL STRUCTURE FLYWHEEL AS CENTRIFUGE ACCELERATOR ARL-TOR-63-9 11-34	LANGMUIR PROBE FOR STELLARATOR PLASMA RESEARCH MATT-139 04-24
METHOD FOR DESIGN OF FRACTURE-SAFE STEEL STRUCTURES - WELDMENTS, FORGINGS, AND CASTINGS WRL-5920 N63-14983 11-34	RUNAWAY DOMINATED STELLARATOR DISCHARGES MATT-164 N63-12793 06-24
METHOD FOR DEFLECTION AND STRESS ANALYSIS IN PERFORATED MATERIAL AND ROLLED-IN TUBE EFFECT -	TIME DEPENDENCY OF VARIATION OF NEUTRAL PARTICLE DENSITY IN MODEL C-STELLARATOR DISCHARGES MATT-161 N63-14998 11-24
REACTOR TECHNOLOGY N63-15267 12-33	EQUILIBRIUM OF CURRENT CARRYING TOROIDAL PLASMA -
PLASTIC DESIGN IN HIGH STRENGTH STEEL - BIELIDGRAPHY OF STRUCTURAL ANALYSIS	EXPERIMENT WITH MODEL C-STELLARATOR N63-15028 11-24

2-33 LAT 2-34

5-09 3-29 6-29

6-29 ION 1-29 1-05 IS -2-29

-05

-05 ON -05 AR -29 ION ES -29

-05 -05

-05

24

24

24

24

DECREASE OF PLASMA LOSS IN STELLARATOR RESULTING FROM PROBE-IMPOSED RADIAL ELECTRIC FIELD MATT-157 N63-15476 12-24	STERILIZATION OF UNMANNED LUNAR AND PLANETARY
INTERPRETATION OF OBSERVED IMPURITY RADIATION IN	SPACECRAFT AGAINST EARTH MICROBIAL ORGANISMS JPL-TR-32-325/REV./ M63-15243 11-32
DISCHARGE OF THE C-STELLARATOR N63-21188 21-24	ASTRONAUTICS ABSTRACTS - EFFECTS OF STERILIZING AGENTS ON MICROORGANISMS
STELLARATOR PARTICLE CONFINEMENT AND POWER BALANCE MATT-205 No3-22323 23-24	JPLAT/LS-260, SUPPL: 30 No3-16122 13-16 BIOCHENICAL STERILIZATION OF SPACECRAFT TO PREVENT
EFFECT OF TRANSVERSE MAGNETIC FIELD ON MAGNETIC SURFACES IN STELLARATOR WITH HELICAL WINDINGS MATT-197 N63-23094 24-24	CONTAMINATION OF NOON N63-19484 19-16 STERNUM CF BOME
DOPPLER TEMPERATURES IN THE C STELLARATOR - KINETIC TEMPERATURE OF IMPURITY IONS IN HYDROGEN DISCHARGE	DURING DECELERATION AND IMPACT ARL-TOR-62-29 OG-16
DISCHARGE NATT-200 N63-23095 24-24	STEROID
CATALYTIC ACTIVITY AND ATOMIC RECOMBINATION IN STEP FUNCTION OXYGEN FLOW - HEAT TRANSFER	EFFECTS OF STEROIDS IN CHLORELLA NO3-11195 03-16 STRESS IN DENTAL PATIENTS - SERUM AND URINE
HOMOGENEOUS LAYER APPROXIMATION OF TAPERED	17-HYDROXYCORTICOSTEROID RESPONSES IN IMPACTION PATIENTS SAM-62-59
JUNCTION USING STEP FUNCTION RADC-TOR-63-315 N63-18091 16-09	LINEAR POLYMERS CONTAINING ALUMINUM - CHELATES,
THEORY FOR CALCULATING STEP TRANSITIONS IN TRANSMISSION LINES USING CHEBYSHEV POLYNOMIALS AID-T-63-105 N63-20773 21-20	STEROIDS, STABILITY PA-TM-1060 N63-14470 10-07
TEP ROCKET	STEROID HORMONES - ADRENAL CORTICAL FUNCTION CHANGES IN CHIMPANZEE DURING SIMULATED AND ACTUAL
SPACE SCIENCE - STEP ROCKET OPTIMIZATION THEORY N63-15982 13-10	SPACE FLIGHT ARL-TOR-63-17 223000 223400 N63-19065 18-16
STEREOCHEMISTRY GROSS STRUCTURE AND STEREOCHEMISTRY OF DIMERS OF	URINARY EXCRETION OF CORTICOSTERONE-LIKE HORMONES
CYCLOBUTANE DERIVATIVE ARJO-2914-13 463-20975 21-25	AND CATECHOLAMINES STUDIED IN PILOTS IN THO-MAN SPACE CABIN SIMULATOR SAM-TOR-63-53 N63-22667 23-14
TEREOPHOTOGRAPHY THEORY OF ELECTRON MICROSCOPIC STEREOPHOTOGRAPHY AND DIFFERENCE BETWEEN OPTICAL AND ELECTRON	STERDIDS & CATECHOLAMINE IN HUMAN MASTE AFTER FLIGHT STRESS - EFFECT OF VESTIBULAR ORGANS ON EXCRETORY CONTENT MASA-CR-30501 N63-23010 24-16
MICROSCOPES RSIC-65 N63-22559 23-23	STIFF STRUCTURE 19991 - YAZBO DITEARDOSE NO 2233069
CF PURIFICATION COMPATIBILITY OF MATERIALS AND COMPONENTS WITH	GENERAL INSTABILITY OF CIRCUMFERENTIALLY STIFFENED SANDWICH SHELLS SUBJECTED TO UNIFORM EXTERNAL PRESSURE N63-10700 02-33
HEAT AND ETHYLENE OXIDE-FREON - SURVEYOR SPACECRAFT PROGRAM RS-277 N63-10078 01-19	STIFFNESS AND VIBRATION PREDICTION IN TRUSSES, MULTISTAGE CYLINDERS, AND CLUSTERED CYLINDERS N63-11064 93-33
STERILIZATION OF ELECTRONIC COMPONENTS OF SPACECRAFT N63-10373 01-29	COMPARISON OF BENDING OF ORTHOGONALLY STIFFERED PLATE MITH BENDING THEORY OF ORTHOTROPIC PLATE
SPACECRAFT STERILIZATION NASA-TN-D-1357 N63-10793 02-16	TYRI-53 N63-12434 06-33 ROOM-TEMPERATURE SHEAR AND COMPRESSION TESTS OF
NUTRITIONAL VALUE OF ALGAE GROWN UNDER STERILE CONDITIONS N63-11484 03-16	STIFFENED PANELS WITH INTEGRAL OR ATTACHED COOLING CIRCUITS NASA-TN-D-1499 N69-14271 10-33
SPACE RESEARCH - ASTRONOMY, LUMAR & PLANETARY RESEARCH, BIOLOGY, SOLAR ATMOSPHERE, STERILIZATION AND CELESTIAL MECHANICS NAS/NRC-1079 N63-11562 04-01	STATIC STRENGTH OF STIFFENED SHEET WITH CENTRAL NOTCH - TESTING OF TWO ALUMINUM ALLOYS NASA-TN-D-1943 N63-18773 17-18
DESIGN OF UNMANNED SPACECRAFT FOR PLANETARY AND INTERPLANETARY EXPLORATION - STERILIZATION - HEAT SHEELDS	STIGMATIC SPECTROSCOPE PHOTOMULTIPLIER READ-OUT FOR BAUSCH & LOMB 1.5- METER STIGMATIC SPECTROSCOPE
IAS PAPER-63-36 07-32	TDR-169/3210-C6/TR-1 N63-12279 05-15
STERILIZATION OF UNMANNED PLANETARY AND LUNAR SPACE VEHICLES JPL-TR-32-325 N63-13440 08-16	STIMULATION SA SERSORY STIMULATION CF PERCEPTION SERVORECHANISHS - SAMPLED DATA SYSTEM STIMULATION
DRY HEAT IRRADIATION AND CHEMICAL STERILIZATION OF SPACE PROBE COMPONENTS TO AVOID CONTAINATION OF	AND VERIFICATION RG-TR-63-5 N63-12957 07-09
SOIL SCIENCE IN SPACE EXPLORATION - SOIL STERLIZATION AS PART OF DECONTABLINATION	HEASUREMENT OF RAMAN SCATTERING CROSS SECTIONS FOR CALCULATING STIMULATED RAMAN SCATTERING EFFECTS - RUBY LASER 24-25
PROGRAM FOR SPACE FLIGHT JPL-TR-32-399 08-29	ABSOLUTE IDENTIFICATION OF CUTANEOUS STENULE
RHEOLOGICAL BEHAVIOR OF AEROSOL IN WATER - SEDIMENTATION & VISCOSITY STABILIZATION STUDIES	VARYING IN BOTH INTENSITY LEVEL AND DURATION CARI-62-16 N69-12248 C5-14

05-04

22-04

22-04

22-04

21-16

08-07

12-07

15-12

EQUATIONS FOR BURNING VELOCITY OF STOICHIOMETRIC ACETYLENE-AIR MIXTURES IN A SPHERICAL CONSTANT HUMAN THERMOSTAT - TEMPERATURE CONTROL STIMULUS-ICAL CONSTANT N63-14072 VOLUME VESSEL EFFECT OF ELECTRIC STIMULATION OF BRAINS OF UNANESTHETIZED CATS - NEURAL RESPONSE TO SEPTAL AND HYPOTHALAMIC STIMULATION PURIFICATION AND STOICHIGHETRY OF ELECTRONIC SEMICONDUCTOR MATERIALS N63-19525 AAL-TOR-62-14 N63-16868 14-16 AFCRL-63-160 STOL AIRCRAFT STIMULUS SIMILARITY AND DELAY IN TRANSFER OF NASA AEROMAUTICAL RESEARCH PROGRAM - HELICOPTEAS, SUPERSONIC TRANSPORT, STOL VEHICLES, MULTIMISSION AIRCRAFT & X-15 - CONGRESSIONAL HEARINGS TRAINING N63-17584 16-14 AMRL-TDR-63-26 PROBABILITY OF DISCRIMINATION BETWEEN SUBSEQUENT ALTERNATIVE STIMULI FOUR-PROPELLER STOL TRANSPORT AIRCRAFT WITH BOUNDARY LAYER CONTROL ON HIGHLY DEFLECTED FLARS MASA-IN-D-1647 05-1 FSD-TDR-63-134 N63-17634 16-14 GENERALIZATION GRADIENT OF CONDITIONED RESPONSE IN CHIMPANZEES ON VISUAL-SPATIAL STIMULUS LEVEL SIMULATOR STUDY OF LATERAL-DIRECTIONAL HANDLING QUALITIES OF PROPELLER STOL TRANSPORT AIRPLANE STOCHASTIC PROCESS CF RANDOM PROCESS N63-15526 12-04 NASA-TN-D-1773 DYNAMIC BEHAVIOR OF VTOL & STOL POWER TRANSMISSION SHAFTS OPERATING AT HYPERCRITICAL SPEEDS - SHAFT DESIGN - STRUCTURAL DYNAMICS N63-16610 14-34 STOCHASTIC PROCESS APPLIED TO OPTIMIZING SYSTEM N63-14965 11-20 ASYMPTOTIC THEORY OF CONTROL - STOCHASTIC AND DETERMINISTIC N-STAGE PROCESSES JET VTOL AND STOL TACTICAL AIRCRAFT N63-21482 JPL-TR-32-21 HIGH-SPEED SHAFTING FOR POWER TRANSMISSION IN STOL NON-MARKOVIAN STOCHASTIC MODELS APPLIED TO AND VIOL AIRCRAFT N63-21840 INTERPRET CLINICAL MEDICINE - BIOSTATISTICS MRC-385 N63-16043 13-16 DYNAMIC TORSIONAL PROBLEMS IN VIOL DRIVE TRAINS WITH UNIVERSAL JOINTS N63-21841 SEHI-MARKOV MODEL FOR CLINICAL TRIALS - DATA ANALYSIS - STOCHASTIC PROCESS STOMACH N63-16791 14-20 ANATOMY SODIUM DEPENDENCE OF BIOELECTRIC OUTPUTS IN RAT STOMACH - RADIATION DAMAGE DETECTION OF STOCHASTIC PROCESSES IN NON-GAUSSIAN USNRDL-TR-608 N63-13573 RADC-TDR-63-192 N63-18647 17-08 ROLE OF STOMACH & OTHER EXTRA-RENAL ORGANS IN IODINE LOSS DURING THYROID UPTAKE - HUMAN OPTIMAL CONTROL OF STOCHASTIC SYSTEMS - CONTROL RULES, CONTROL SCHEMES, AND FEEDBACK CONTROL LOOP ANALYSIS N63-21184 PHYSIOLOGY RM-3726-PR N63-19050 18-09 STONY METEORITE GENESIS OF LIGHT-DARK STRUCTURE IN PANTAR PROCESS OF STOCHASTIC DELAY - EFFECT ON POWER SPECTRA - CORRELATION FUNCTIONS OF RADAR AND AND KAPOETA STONE METEORITES SONAR SYSTEMS N63-19107 18-08 OXYGEN SUPPLY FROM SPACE MINERALS - KINETICS AND THERMODYNAMICS OF STONY METEORITE REDUCTION BY STOCHASTIC LINEAR EQUIVALENTS OF CLOSED LOOP HYDROGEN N63-15271 18-20 CARBON 14 CONTENT AND TERRESTRIAL AGE OF TWELVE STONY METEORITES AND ONE IRON METEORITE PIBMRI-1167-63 N63-19151 CAUCHY PROBLEM FOR DEGENERATIVE LINEAR PARABOLIC N63-15276 PARTIAL DIFFERENTIAL EQUATIONS OF STOCHASTIC CONTROL THEORY ELECTROMAGNETIC PARAMETERS OF NETEORITES, TEKTITES, GLASSES, AND ROCKS N63-15803 SEQUENTIAL ESTIMATION OF CORRELATED STOCHASTIC VARIABLES AND APPLICATION TO DEEP SPACE ORBIT DETERMINATIONS LUMINOSITY OF IRON AND STONY METEORITES - METEORS N63-16650 14-05 RADIDACTIVE NUCLIDES IN CHONDRITIC BRUDERHEIM METEORITE AND OTHER STONY METEORITES ANALOG DATA REDUCTION OF STOCHASTIC DATA -MASA-CR-50181 N63-17153 SPECTRA, CROSS POWER SPECTRA, & RANDOM SIGNALS NLR-TN-V-1895 N63-21255 2 ABLATION MODE CRITERION FOR STONE METEOR -VAPORIZATION AND MELTING - HEAT TRANSFER 21-20 NONLINEAR CLOSED-LOOP CONTROL SYSTEMS WITH STATIONARY STOCHASTIC INPUTS N63-18174 NASA-TN-D-2061 LIGHT-DARK STRUCTURE OF PANTAR CHONDRITE AND 23-06 KAPOETA ACHONDRITE STONY METEORITES THEORY OF DYNAMIC SYSTEM STABILITY, OPTIMIZATION, N63-23620 STOCHASTIC VARIATION, CONTROL, & MONLINEAR OSCILLATION STORAGE NASA-CR-52006 23-23 SA SPACE STORAGE CF AGING CF HANDLING EQUIPMENT MANUAL CONTROL AS A STOCHASTIC PROCESS SOVIET REPORT ON FERRITE CORES, MAGNETIC CORES, REGISTERS, MEMORY DEVICES, AND STORAGE DEVICES JPRS-14224 N63-11676 04-N63-23253 STOICHIOMETRY IGNITION GEOMETRY INFLUENCE ON INITIAL FLAME ACCELERATION IN SPARK-IGNITED, STOICHIOMETRIC HYDROGEN-DXYGEN MIXTURES N63-14324 ALGORITHM FOR ORGANIZATION OF INFORMATION - STORAGE AND RETRIEVAL N63-11777

TRANSISTORIZED CONTROL SYSTEMS FOR DATA STORAGE DEVICE USING PLEZOELECTRICS

PROPERTY ANALYSIS OF NONSTOICHIGHETRIC METALLIC

N63-18389

CARBIDES - PERIODIC GROUP IN METALS

NASA-CR-50321

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9-07

AS. 5-01

PS 5-04 6 2-04

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-23

-20

JPRS-17323 87	N63-12189	Q5-17	STORE - CONDENS ASSESSMENT		
TEMPERATURE DISTRIBUTION AN INSULATION OF COMPRESSED-GA FTD-TT-62-1459/16284	ID HEAT TRANSFER I AS TANKS N63-12754	06-13	STORM SA GEOMAGNETIC STORM	STREET, STREET, AND ST	12-11
STORAGE, RETRIEVAL, AND UTI PROGRAMS FROM SERVICE ROUTI RAW-TM-63-2		07-20	SA IONOSPHERIC STORM SA MAGNETIC STORM SA THUNDERSTORM CF GUST	EMERSESONIC MAPPORACH 973 TIC AND PLASTIC SIX	RAC-
SOVIET STUDY OF BACTERIA WHIN STORAGE	and this distant	AND ON	DYNAMICS OF SEVERE CONVEC NSSP-9	TIVE STORMS N63-10209	4800
EFFECT OF STORAGE FOR 18 MC GREASE COMPATIBILITIES RIA-63-88	ONTHS ON LUBRICATI	NG	ANALYSES OF PACIFIC STORM RADAR RECORDS AND SHORT-1 VOL V, JUNE 5 TO 7, 1961 AFCRL-62-469	NTERVAL SERIAL ASCE	NTS -
CIRCUIT WIRING FOR NUMBER S TO-CARD CONVERTER - MEMORY EUR-263-D	STORAGE UNIT	MHTZ	TYPE IV SOLAR RADIO NOISE BN-291	N63-12078	05-05
HANDLING AND STORAGE OF NIT	ROGEN TETROXIDE	TA-TE	SYNOPTIC STUDY OF MESOSCA ASSOCIATED WITH SEVERE LO RSIC-37	CAL STORMS N63-19756	19-21
RTD-TDR-63-1033 DATA PROCESSING SYSTEM IMPR RECOVERY, DATA STORAGE, AND	ROVEMENT - DATA	1-28A 7-1	DECAMETRIC RADIATION FROM OBSERVATIONS 1957 TO 1961 MEASUREMENTS	- RADIATION STORM	LANA AND
MATHEMATICAL MODELS - MATRI PROCESSING, CONTROL AND STO		ATA	TIDE AND STORK SURGE OBSE AFCRL-63-616	RVATIONS IN CHUKCHI	
ORNL-3430 MATHEMATICAL MODEL FOR ASSO	N63-16543	14-20 USE	SPECTRAL ENERGY FLUXES IN MOTIONS AND NOMLINEAR INT AND VELOCITY FIELDS IN DI	TERACTION OF TEMPERA	ATURE
OF ASSOCIATIVE ADDRESSING A			AFCRL-63-883 WINDBORNE SAND AND DUST C		23-23 SERT
DIGITAL DATA STORAGE AND DI DRUM AND CATHODE RAY TUBE S CREL-1145	CREEN N63-20020	19-08	ES-8	N63-23688	24-12
STORAGE DEVICE LIQUID DXYGEN STORAGE AND C ALL CONDITIONS OF GRAVITY AMRL-TDR-62-143	CONVERSION SYSTEM	FOR	STRAIN SA PRESTRAIN SA STRESS-STRAIN DISTRIBUTI CF BUCKLING CF CRACK	ION LIOV YEAT-SO-SO!	-dse
ENGINEERING AND DESIGN - ST AND DISPENSING OF AIRCRAFT EN-1110-345-332	TORAGE, DISTRIBUTE	ON.	CF FAILURE CF FATIGUE CF FORCE CF STRESS	THE AND SEPTEMBER	PERSY STEET
COMPUTER PROGRAM FOR CALCUL INTERACTION BETWEEN CYLINDR AND FISSIONABLE MATERIAL	ATING NEUTRON		CF YIELD STRENGTH APPLICATION OF LINEAR HAP TO CYCLE AND PATH DEPENDE TGAN-212	DENING PLASTICITY	
STRAIN SERVITERITY COME.	1544 1 N63-16385		EFFECT OF COMPRESSIVE PRE	STRAIN ON FRACTURE	HETH
DESIGN ELEMENTS FOR A 750 M ELECTRONS AND POSITRONS LNF-63/34	N63-19270	18-23	TOUGHNESS OF S.A.E. 4340 TEAH-219	N63-10891	02-33
ELECTRON-POSITRON MAGNETIC	MENTER HEREVE	15 (28)	SURFACE STRAINS IN CASE-E ENGINES AND STUDIES OF IN SOLID PROPELLANT GRAINS	SONDED MODELS OF ROI STERNAL DISPLACEMENT	TS IN
AND CONSTRUCTION LNF-63/62	N63-22925	23-23	STRAIN MEASUREMENTS ON AL	CECK - SIATER VEREDA	REPEA
PREPARATION AND STORAGE STA	BILITY OF HIGH-PU	518306 ×	RAE-TRANS-996	N63-12112	05-33
HYDRAZINE - CALCIUM HYDRIDE	N63-11416	03-07	NONELASTIC STRAIN RECOVER		
EFFECTS OF AGING ON MI7 PRO PA-TR-3019	PELLANT N63-12605	06-26	STRAIN AGING EFFECTS IN I	HIGHLUN DUE TO HYDR	DGEN
EFFECT OF STORAGE ON COMBUS ACOUSTICS OF SOLID PROPELLA INSTABILITY	TION STABILITY AN	/s (59/m	EFFECT OF NITROGEN ON STY STAINLESS STEEL UNDER LOW RANGE SO TO 170-DEE C	RAIN BEHAVIOR OF AIS	SI 304 ERATURE
INTERNAL STRESSES DEVELOPED COMPOUND DURING LONG TERM S TESTS AND INSTRUMENTATION NOLTR-62-79	STORAGE - STRAIN G	AUGE	PLASTIC DEFORMATION OF THE IN SHEAR ASPL-TR-94-3	HIN STLVER BRAZED J	DINTS
SPACE STORABILITY OF PRESSU	IRIZING GASES	22-26	MEASUREMENT OF STRAIN ENI TENSOR EQUATION - NONLINI JPL-TR-32-365	ERGY FUNCTION W OF S	STRESS
STORAGE UNIT PHOTOCATHODE INTERRACTION N	TE-984	AZAH	238188 7827288938 81 033	ING. ID DETERMINE YES	100155
PLATES - TELEVISION TYPE OF ASD-TR-61-631	TICAL AMPLIFIERS		SLOW CYCLE STRAIN FATIGUE GEAP-3983	N63-13496	08-33

STRAIN, ALUMINUM ALLOYS AND ASD-TDR-62-399	COPPER ALLOYS N63-13543	08-33	WAL-TR-323.4/2	N63-20001	19-18
DESIGN OF HOT COMPRESSION ST	RUCTURES FOR AI	RCRAFT	STRAIN AGING EFFECTS ON CRACK P FATIGUE LIMITS IN METALS	ROPAGATION AI N63-20088	20-18
WITH STRESS-STRAIN AND WEIGH NONDINENSIONAL APPROACH RAC-973	N63-13555	DMDI 45	GRAIN BOUNDARY MOTION IN SILVER GROWTH SELECTION IN STRAINED SI	NGLE CRYSTAL	SAUTA
ELASTIC AND PLASTIC STRAIN I IN SOLIDS AROD-1325-16			STRESS-STRAIN ANALYSIS OF SINGL	E CUBIC CRYS	TALS
VAPOR PRESSURE EFFECTS ON PH BODY HEAT STORAGE - THERMAL	YSIOLOGIC STRAI		STRESS RELAXATION DUE TO SMALL DEFORMED VISCOELASTIC MATERIAL		T213197
AMRL-TDR-62-147	N63-13938	09-16	A6ES-63-5	N63-22059	22-33
FATIGUE TESTING OF METALS AN CYCLING IN LOW AND INTERMEDI NASA-TN-D-1574	D ALLOYS - STRA ATE LIFE RANGE N63-14250	IN 10-33	NONHOMOGENEOUS STRAIN AND FRACT FILLED ELASTOMER	TURE MECHANISI N63-22418	M IN 23-19
STRESS-STRAIN PROPERTIES OF VERY HIGH TEMPERATURES			STRAIN HARDENING AND AUSFORMING ALLOY - DUCTILITY, YIELD AND TE ARL-63-124	NSILE STRENG	NICKEL TH 23-11
IS DEFINED AS THE PERSON OF TH	N63-14498		INTERNAL STRAIN IN FILAMENTS OF DEPOSITED ON TUNGSTEN		DRON
LONGITUDINAL IMPACT ON VISCO ANALYSIS	N63-14675		ARC-R-107	N63-22614	23-01
PROPAGATION OF BRITTLE FRACT RELEASE RATE FOR AN ENLARGIN SPEED			PROPAGATION OF ELASTIC AND PLAS IN BOUNDED SOLIDS AROD-1325-17	N63-22745	UL SES 23-23
TTR1-54	N63-15231	11-33	HYDRODYNAMIC SYSTEM FOR STRAINI	HUNE LAGINAM	THOUGHT.
HEAT INPUT AND TRANSFER, BAR THERMAL STRAINS IN 37-MM GUN		, AND	SPECIMENS AMRA-TR-63-21	N63-22922	23-31
BRL-1192 STRAIN DISTRIBUTION ON NOTCH		24274	PHOTOSTRESS TECHNIQUE IN STRAIN STUDY OF POLARIS AS SECOND-STAG	E AFT DOME	
TEMPERATURE DURING LOADING ASD-TDR-62-710	N63-15838	13-18	ABL/X-86		24-20
RESPONSE LOAD RECORDER TO HE OF POINT ON RESONANT STRUCTU VEHICLE - ESTIMATION OF ACCU	RE OF FLIGHT	RIARTS	STRAIN FIELD OBSERVATIONS REGARDING STRAIN F CRACK TO INTERPRET MECHANICS OF INITIATION - CRACK PROPAGATION	FRACTURE	
ASD-TDR-62-165, VOL. 11			MAC AND CONVERSION (TAKES DON)	N63-20089	20-16
STRAIN AGING AND DELAYED FAIL			GAUGE DESIGN FOR MEASURING FREE STRAIN, AND ACCELERATION	FIELD STRES	5,000
ASD-TDR-62-968			AFSWC-TDR-63-45		2 (28%)
FLUCTUATIONS IN TURBULENT BO DELTA 2 AIRCRAFT - MEASUREME PRESSURE AND STRUCTURAL STRA	NT OF SURFACE	THE ALEK	STRAIN GAUGE SELF TEMPERATURE COMPENSATED GA STRAIN ANALYSIS	MANGEDRA APTT	OR
	N63-16169		ARL/HE-251	NT SUMMOTORA	T GHA
DEVICE FOR DIRECTLY MEASURING METALS SUBJECTED TO HYPERVELO		ON	ELECTRICAL-RESISTANCE STRAIN GA RESPONSE, HYSTERESIS, STRAIN SE ZERO DRIFT & RESISTANCE AT CRYC NASA-TN-D-1663	MSITIVITY, CO	REEP, ATURES
MAXIMUM STRAIN IN RESIN-FIBE NRL-5752	RGLAS COMPOSITE		BALANCE SYSTEM TESTING IN LOW S SOUTHAMPTON UNIVERSITY	43.1-11.06514	31-38-60
INTERACTION OF IMPURITY ATOMS			AASU-208	N63-14401	10-1
STRAIN AGING AND TENSILE CRE ASD-TDR-63-238	N63-18079	16-18	MEASURING DEVICES FOR INTERMITI WIND TUNNELS - BALANCES WITH ST PRESSURE GAUGES	RAIN GAUGES	-10 A RE
HIGH TEMPERATURE CREEP ANALYS RECOVERABILITY IN GRAPHITE			OVL-182 - 18387 A 347 3 G1 ASYM MU	N63-14423	10-1
COA-H-151, PT. 3	N63-18379	17-19	AFSWC-TDR-63-3	N63-15567	12-1
CONVERSION OF ELECTRIC ENERGY GLASS IRRADIATED BY ELECTROM PLASMAS		WD O	INTERNAL STRESSES DEVELOPED IN COMPOUND DURING LONG TERM STORA		
TENSILE STRENGTH OF ALUMINUM USING GAS BEARINGS FOR UNIAX		HITE	TESTS AND INSTRUMENTATION NOLTR-62-79	N63-19043	18-3
ASD-TDR-63-245	N63-19463	19-33	WIND TUNNEL BALANCE WITH STRAIN	GAUGE STRIP	21-1
X-RAY BACK-REFLECTION DIVERGE ANALYSES OF TANTALUM AND TUNE	STEN SINGLE CR		RESEARCH ON HIGH TEMPERATURE ST	RAIN GAUGE	11240W
DISLOCATION INTERSTITIAL BING	ING ENERGIES,		ARL-63-147 EAS THIS RESEARCE TO	CN-51820	-AZÁRT
AGING OF TANTALUM-DXYGEN ALLO STUDIES TO DETERMINE YIELD IN	Y AND FLOW STR	TALS	STRAIN GAUGES FOR USE AT CRYOGE NASA-RP-37	N63-22452	23-1
HIGH STRENGTH & FRACTURE TOUR STRAIN-INDUCED MARTENSITE TRA	HNESS IN STEELS	7690	HIGH TEMPERATURE STRAIN GAGE	All 1288-10-8	7-024

19-18 20-18 0 21-25 LS 22-25 010 22-33 IN 23-19 KEL 3-18 IN 3-09 ES 3-23 EST 3-33

4-20 OF 0-18

1-33

7-15

ATH P, RES 9-15

3-15

)~15

-15 TING IE -33 -10 -13 -17 -15

STRAIN RATE EFFECT OF TEMPERATURE AND STRAIN RATE ON CRACK TOUGHNESS OF MILD STEEL TEAM-235 Ne3-13892 02-33	SYMMETRIC WAVE APPROACH TO INSTABILITY OF STRATIFIED SHEAR FLOW AFCRL-63-236 463-15536 12-11
BISCUSSION OF CRACKING, SEPARATION, STRAIN RATF, TEMPERATURE, FLAW INFLUENCE, AND POSSIBLE RATE THEORY BASIS FOR FRACTURING N63-14097 09-33	TURBULENCE INDUCED IN STABLE, STRATIFIED AIRSTREAM BY AIR FLOW OVER MOUNTAINS N63-16819 14-11 STRATO-LAG OBSERVATION CF LABORATORY
STRAIN RATE AND TEMPERATURE EFFECTS ON FRACTURE TOUGHNESS, CRACK FORMATION, AND VIELD STRENGTH OF NOTCHED AND UNNOTCHED MILD STEEL SPECIMENS NRL-5776 N63-15366 12-18	STRATOSPHERE CF ATMOSPHERE THE STRATOSPHERIC SOLAR CORONA N63-10196 01-05
FAILURE OF METAL RING STRUCTURES AT HIGH STRAIN RATE - UNIFORM ELONGATION MAL-TR-111.2/20-1 N63-15383 12-18	DATA ACCURACY COMPARISON - TROPOSPHERE VERSUS STRATOSPHERE AFCRL-62-1013 N63-10609 02-12
TESTING OF STRUCTURAL MATERIALS AT HIGH STRAIN RATES - RATE DEPENDENCE OF DYNAMIC RESPONSE TO LOADING OR DEFORMATION - TEST METHODS EVALUATION N63-16404 14-33	STRATO-LAB BALLOON PROGRAM AND ITS CONTRIBUTION TO MANNED SPACE FLIGHT N63-11157 03-04 WIND SPECIFA OF THE TROPOSPHERE AND LOWER
RELATION BETWEEN STRESS, STRAIN RATE, AND COLOR TEMPERATURE IN BEHAVIOR OF SOLID PROPELLANTS	STRATOSPHERE AFCRL-62-1022 M63-11167 03-12 WIND AND TEMPERATURE FIELDS OF THE TROPOSPHERE AND
N63-17390 15-26 BLAST LOADING OF STRAIN RATE DEPENDENT CANTILEVER BEARS - ELASTIC AND PLASTIC DEFORMATION	LOWER STRATOSPHENE AFCRL-62-1023 N65-11598 04-21
MATERIALS SCIENCE - EMBRITTLEMENT MECHANISM, PARTICLE BEAM EFFECTS & STRAIN RATE EFFECTS IN	VERTICAL DISTRIBUTION OF WATER VAPOR AT LOW LATITUDES AS MEASURED WITH BALLOGN-BORNE FROST- POINT HYGROMETER NRL-5817 N63-12698 06-21
MATERIALS MANUFACTURING CAL-NM-1559-P-3 N63-18023 15-17	EXISTENCE AND IDENTITY OF VIABLE NICRODAGANISHS IN STRATOSPHERE NO3-13268 07-16
MECHANICAL PROPERTIES OF ALLOYS - CRYOGENIC PROPERTIES, STRAIN RATE EFFECT, RESULTS OF FATIGUE AND FRACTURE TESTING 463-18103 16-18	STRATOSPHERIC RESULTS OF RHODIUM-102 HIGH ALTITUDE TRACER EXPERIMENT AFCRL-62-46071/ M63-13926 09-12
STRAIN SOFTENING TO IMPROVE THE PROPERTIES OF REFRACTORY METALS N63-23584 24-18	ATLAS OF MONTHLY MEAN STRATOSPHERE CHARTS - 1955 TO 1959 - PART 2, JULY TO DEC - AVERAGE CONDITIONS OVER NORTHERN HEMISPHERE
STRAKE WIND TUNNEL TESTS OF FLOW AROUND A CIRCULAR CYLINDER FITTED WITH HELICAL STRAKES NPL/AERO/1040 N63-10895 02-32	AF SURVEYS IN GEOPHYSICS-141 N63-13957 09-12 SOUTHERN CIRCUMPOLAR VORYEX AND SPRING HARMING OF POLAR STRATOSPHERE - ATMOSPHERIC EMERGETICS
STRATEGY TWO-PERSON MARKOV GAMES N63-11633 04-2	N63-14917 11-21 KINETIC ENERGY BUDGET OF STRATOSPHERE OVER
OPTIMAL STRATEGIES IN FUNGUS-EATER GAMES - LEARNING, DECISION PROCESS, GAMPLING - HUMAN	NORTH AMERICA DURING THE WARNING OF 1957 AFCRL-63-429 N63-15394 12-12
BEHAVIOR ESO-TDR-63-406 N63-20642 20-14	TURBULENCE IN THE UPPER ATMOSPHERE - STRATOSPHERE AND UPPER TROPOSPHERE N63-16817 14-11
DIFFERENTIAL GAME WITH INTEGRAL PAYOFF AND CONTINUOUS TERMINAL PAYOFF WITHOUT PURE STRATEGY SOLUTION	HEAT TRANSMISSION IN LEADS OF ROCKETSUNDE THERMISTOR, WIND AND TEMPERATURE DISTRIBUTION AND ENERGY EXCHANGE IN STRATOSPHERE
RM-3012-PR M63-21241 21-20	163-16921 14-12
STRATFORD METHOD HEAT TRANSFER THROUGH A CONSTANT-PROPERTY LAMINAR BOUNDARY LAYER - PART I, LIGHTHILL METHOD - PART II, STRATFORD METHOD	SDURCES OF ERROR IN ROCKETSONDE THERMISTOR DATA - REVIEW OF PROBLEM AREAS IN STRATOSPHERIC METEOROLOGY N63-17645 16-12
ARC-REM-3300 No3-13968 09-13	METEOROLOGY - ENERGY CONVERSION, ANGULAR MOMENTUM, MASS TRANSFER AND WIND CIRCULATION IN STRATOSPHERE
STRATIFICATION TEMPERATURE STRATIFICATION OF CRYOGENIC PROPELLANTS N63-11329 03-26	AFCRL-63-435 N63-17763 16-21 KINETIC ENERGY IN STRATOSPHERE AND VERTICAL STRATOSPHERIC MOTION N63-17764 16-21
NONUNIFORM NON-LOSSY OR LOSSY TRANSMISSION LINES OR LAYERS, USED AS BROADBAND MATCHING OR ABSORBING	KINETIC AND POTENTIAL ENERGY OF STRATOSPHERE -
DEVICES RADC-TDR-63-123 N63-14494 10-08	HUMERICAL APPROXIMATION OF INTEGRAL EQUATIONS 16-21
MATCHING AND ABSORBING MATERIALS FOR MICROWAVE RADIATION - STRATIFICATION AND REFLECTION RADC-TOR-63-141 N63-14504 10-25	DIFFERENTIAL EQUATION OF ANGULAR MOMENTUM BALANCE IN STRATOSPHERE - WIND OBSERVATION DATA Me3-17786 16-21
GEOLOGY AND GEOPHYSICS APPLIED TO RADIO PROPAGATION THROUGH ROCK STRATIFICATION OF EARTHS CRUST	MERIDIONAL FLOW WIND CIRCULATION IN STRATOSPHERE N63-17707 16-21
AFCAL-53-40 N63-15106 11-08	MASS TRANSFER AND DISTRIBUTION IN TROPOPAUSE AND STRATOSPHERE N63-17788 16-21
THEORY OF CYCLONE WAVES IN ATMOSPHERIC MODELS -	HORIZONTAL AND VERTICAL MOTION OF WIND CERCULATION

IN STRATOSPHERE	N63-17789	16-21	TURBULENCE, STATIC-DYNAMIC PRES LAYER-SHOCK WAVE INTERACTION &		
HIGH ALTITUDE PARACHUTE TESTI	NG - SPACE CAP	SULE	ARC-REM-3292		
NASA-TH-X-232		16-04	PRESSURE MEASUREMENTS ON CONE-C CONFIGURATION AT SMALL INCIDENCE	ES FOR FREE S	STREAM
EXPLORATION OF STRATOSPHERE F	OR VIABLE	00.00	MACH NUMBER OF 6.8 ARC-CP-632	WAR VERLY MARK	4437
NASA-CR-50298	N63-18396		MEAN SEASONAL CROSS SECTIONS AL	ONG 80-DEGREE	ES WEST
STRATOSPHERIC CIRCULATION DAT METEOROLOGICAL ROCKET FIRINGS DURING WINTER OF 1961 - TIROS	OVER UNITED S	DATA	CONSTRUCTED FROM DAILY DATA - M DEVIATIONS FOR JETSTREAMS	N63-14068	ARD 09-21
NASA-TN-D-1755 WIND CIRCULATION IN STRATOSPH		PHERE	EXTERNAL STREAM EFFECTS ON ISEN NOZZLE PERFORMANCE AT MACH 2.0, NASA-MEMO-2-17-59E	1.8, AND 1.5	5
BALLOON FLIGHT PROGRAM - INTE BETWEEN UNITED STATES AND IND	RNATIONAL COOP	ERATION	EFFECT OF JET AND FREE STREAM A FUSELAGE OF JET AND DUCTED-FAN TRANSITION	VTOL AIRCRAFT	TIN
STRATOSPHERE AFCRL-62-1135	N63-18683	V-1978	FREE STREAM PROPERTIES OF HYPER		TARL
INFRARED RADIATION TRANSMISSI	ON - TRANSMITT	ANCE	NONEGUILIBRIUM FLOW, AND ELECTR SHOCK TUNNEL PLASMA FLOW		
TABLES FOR STRATOSPHERE SSD-TDR-62-127, VOL. V	N63-18722	17-12	R63S027		
WATER VAPOR MEASUREMENT IN ST	RATOSPHERE -		WIND TUNNEL INVESTIGATION OF PR STREAM EJECTOR FOR TRISONIC WIN	D TUNNEL	
MESOSPHERE LAYER ABOVE 25 TO JPRS-20628	30-KM N63-19754		SH-41379-6	STATE OF STREET	
STRATOSPHERIC WIND CIRCULATIO			DETECTION OF SOLAR PARTICLE STR POLARIZATION OF HIGH FREQUENCY SEL-63-041	RADIO WAVES	
TOTAL POTENTIAL-ENERGY BUDGET OVER NORTH AMERICA DURING THE AFCRL-63-689		57	JET STREAM CLOUDS WHICH CAN CAU T-386-R		
STRATOSPHERIC CIRCULATION - S KINETIC ENERGY BUDGET, MAYE N ZONE FLOW	EASONAL VARIATI	IONS,	WEATHER SATELLITE SYSTEM DESIGN WEATHER FORECASTING, CLOUD PHOT SATELLITE AFCRL-63-804	OGRAPHS - TIR	ROS
			EFFECT OF FREE STREAM TURBULENC	SOFTENING:	KIARD
DESIRABILITY OF STRATOSPHERIC STRATUS CLOUD	N63-23331	24-21	RADIATIVE SOUND FIELD OF A FREE SPECTRA AND SOUND PRODUCTION PRI NASA-CR-51985	JET - POWER	24-11
STRATIFORM CLOUD PATTERNS AND CANARY ISLANDS FROM ANALYSIS AFCRL-63-694	OF PHOTOGRAPHS	IN .	FREE STREAM CONTROL FOR LOW SPE PULSATING FIELD, STATIC PRESSUR DISTRIBUTIONS	ED WIND TUNNE	DE IN
STREAK PHOTOGRAPHY TWO WAVELENGTH, STREAK INTERF	EROMETRY OF		FTD-TT-62-1476/162		
IONIZED, HEAVY GAS BRL-MEHO-1448	N63-14580		STREAMLINE BODY CORRESPONDENCE BETWEEN RELAXATION		
STREAM			STREAMLINE IN BLUNT-BODY FLOW ALL-QM-1626-A-7		
SA GAS STREAM			STREAMLINES ON SPHERE-CONE AT A		
SA SLIPSTREAM CF FLOW	No. ESSENSIONED	Total line	SUPERSONIC FLOW FROM MEASURED S	URFACE PRESSU	
STUDIES OF SECONDARY POWER GEN	NERATED BY VERT	ICAL	AERODYNAMICS RES. REPT189	N63-15176	
WGL PAPER-28	N63-10026	01-11	STRENGTH S ELASTIC STRENGTH		
PRESSURE DISTRIBUTION ON FLAT ROCKET JETS EXHAUSTING INTO FO NASA-TN-D-1507	REE STREAM FLOW	01-11	S FIBER STRENGTH	- JULY L YEAR	7.4 5W
WIND SHEAR IN THE JETSTREAM			S HIGH STRENGTH S NOTCH STRENGTH S TENSILE STRENGTH		-288
SELWS-M-13			S YIELD STRENGTH		
HEAT TRANSFER TO A SPHERE WITH EXHAUSTING INTO A FREESTREAM NASA-TN-D-1535	N63-10733	02-13	STRESS SA ACCELERATION STRESS	STATE OF	
THE DESCRIPTION OF ACCUMENTS OF A		BME.A	SA AXIAL STRESS SA PHOTOSTRESS	FURSH POPELLY	1.000
NONLINEAR TRAVELING AND STANDS HOMOGENEOUS, JONIZED COLD STRE AFCRL-62-1093		03-12	SA PRESTRESSING SA SHEARING STRESS		20AW
EFFECT OF FORMARD-FACING JET (BODY IN SUPERSONIC FREE STREAM NASA-TN-D-1605		8LUNT 07-02	SA TENSILE STRESS SA THERMAL STRESS CF BENDING CF BUCKLING	TAPICAL AND ASSOCIATED TA	ZEAR JUAR:
DYNAMIC NONLINEAR WAVE PROPAGA	AN ARROW THAT IS		CF CRACK	enan mea yan	
MEDIA - PART 7 - PLASMA WAVES COLD STREAM	IN A HOMOGENEO		CF FAILURE CF FATIGUE CF FORCE	ACATECH STAGES	22514253
US-32	N63-13643	08-24	CF MECHANICAL PROPERTY CF PHOTOELASTICITY	161-23060	
FREE AXISYMMETRIC JET MIXING A	T MACH 1.40 -	JET	CF SHEAR THE STREET WE STVAN	NO JOYS 96 YA	CHAT

Y 1LES 09-11

09-02 S WFST RD 09-21 YPE 10-02 WG OR IN 10-03

S OF

12-10 ING 16-00 ING 18-21

18-32 04 14-31

1-11 IN

CF STRAIN	TESTS N63-13235 07-33
EFFECTS OF COUPLE-STRESSES IN LINEAR ELASTICITY N63-10085 01-33	PLASTIC DEFORMATION OF THIN SILVER BRAZED JOINTS IN SHEAR ASRL-TR-94-3 N63-13298 07-93
INFLUENCE OF COUPLE-STRESSES ON STRESS	The state of the s
CONCENTRATION N63-10086 .01-33	MEASUREMENT OF STRAIN ENERGY FUNCTION W OF STRESS TEMSOR EQUATION - NONLINEAR PHYSICAL PROPERTY JPL-TR-32-365 N53-13445 08-33
TEAH-213 N63-10721 02-33	STRESS WAVE PROPAGATION AND SPALLATION IN UNIAXIAL
STRUCTURAL DESIGN PROBLEMS IN A COMBINED THERMAL AND LOAD ENVIRONMENT - STRESS AND DEFLECTIONS N63-11077 03-34.	STRAIN, ALUNINUM ALLOYS AND COPPER ALLOYS ASD-TDR-62-399 N63-13543 DB-33
GRAVITATIONAL STRESSES IN A SOLID PROPELLANT	DESIGN OF HOT COMPRESSION STRUCTURES FOR AIRCRAFT WITH STRESS-STRAIN AND WEIGHT LIMITATIONS -
GRAIN PIBAL-660 N63-11187 03-26	NONDIMENSIONAL APPROACH RAC-973 N63-13555 GB-34
VELOCITY-DEFECT LAW OF TURBULENT BOUNDARY LAYER	CONFORMAL MAPPING AND STRESSES IN SOLID PROPELLANT
N63-11304 03-11	GRAINS USING IBM 7090 TEAM-241 09-20
ACOUSTIC EMISSION UNDER CYCLIC STRESS - FATIGUE N63-11325 03-23	RESIDUAL STRESS AND ULTRASONIC METHODS OF
MECHANICAL PROPERTIES OF STRUCTURAL MATERIALS	MADD-TR-61-42, PT. 2 :163-13936 G9-33
AMC-RR-TR-62-5 N63-11435 03-33	STRESS STATE EFFECT ON HIGH TEMPERATURE LOW CYCLE
STRESS IN DENTAL PATIENTS - SERUM AND URINE 17-HYDROXYCORTICOSTEROID RESPONSES IN IMPACTION	FATIGUE - INCONEL N63-13974 09-33
PATTENTS SAM-62-59 N63-11624 04-16	FATIGUE OF METALS AND STRUCTURES - EFFECT OF STRESS
ELECTRONAGNETIC INDUCTION METHOD FOR MEASURING	GDC-62-55A N63-14023 09-33
PARTICLE VELOCITIES ASSOCIATED WITH STRESS MAVE PROPAGATION IN BARS AROD-298-1 N63-11679 04-33	STUDY OF THE STATE OF STRESS IN CLOSED TOROIDAL SHELL NITH APPLICATION OF APPLIED THEORY OF FLASTICITY
STRESSES IN INCOMPRESSIBLE VISCOELASTIC PLASTIC	ELASTICITY COA-137 N63-14093 09-33
THICK-MALLED CYLINDER CU-15-62-ONR-266/78/-CE N63-11673 04-33	LONG-TIME CREEP EFFECT ON MECHANICAL PROPERTIES OF STRUCTURAL SHEET MATERIALS UNDER STRESS
GASEOUS PERMEATION THROUGH GLASS, SINGLE-CRYSTAL	N63-14548 10-33 EFFECTS OF RESIDUAL STRESSES ON RANDOM FATIGUE
SILICON AND GERMANIUM, AND EFFECT OF INDUCED STRESS ON PERMEATION THROUGH ALUMINA BODIES UCAL-10466 N63-11998 05-25	LIFE IN BENDING NOTCHED 7075-T6 ALUMINUM ALLOY
PLASTIC ANISOTROPY IN PEHAVIOR OF TEXTURED HETALS	SPECIMENS ASD-TDR-62-1075 A63-14649 10-18
WAL-TR-834.12/2 N63-12166 05-18	STRESS CREEP, RELAXATION, FATIGUE, AND FRACTURE OF METAL ALLOYS AT HIGH TEMPERATURE
BLOOD FLOWMETER ANALYSES OF CORONARY AND HEPATIC CIRCULATION REGULATORY MECHANISMS IN RESPONSE TO	X63-15926 13-18
STRESS AND PHYSIOLOGIC ACTIVITY P-2/168 N63-12378 06-16	HIGH TEMPERATURE FASTENERS - STRESS RELAXATION PROPERTIES GEMP-186
STRESS STATE IN TORICONICAL STRUCTURE OF CONSTANT	
WALL THICKNESS NASA-TM-D-1565 N63-12479 06-33	DYNAMICS OF STRUCTURES AND MATERIALS - STRESSES AND LOADS N63-16603 14-34
HIGH TEMPERATURE REACTOR MATERIALS - STRESS- RUPTURE TESTS - RADIATION EFFECTS	ULTRASONIC TECHNIQUES FOR NONDESTRUCTIVE MEASUREMENT OF RESIDUAL STRESS MADD-TR-61-42, PT. III N63-16740 14-33
GEMP-19A N63-12493 06-33	MADD-TR-61-42, PT. 111 N63-16740 14-33
LINEARIZATION IN PROBLEMS OF FINITE PLASTIC FLOW C11-85 N63-12582 06-33	STRESS HAVE PACPAGATION FROM OBLIQUE IMPACT ON SURFACE OF INFINITE PLATE N63-17069 15-20
STRESS RELAXATION OF FLUOROCARBON ELASTOMERS DURING GAMMA IRRADIATION N63-12705 06-19	NUCLEAR EXPLOSION - PRESSURE PULSE FOR SPHERICAL CAVITY IN HALF SPACE AND STRESS LOADING ON SURFACE
ZENER EFFECT IN ALLOYS - ATOM SIZE FACTOR IN STRESS-INDUCED ORDERING OF SOLUTE ATOMS, AMELASTIC	N63-17327 15-23 INTERNAL DISPLACEMENT AND STRESS IN SOLID
STRAIN, AND RELAXATION STRENGTH N63-12733 06-18	PROPELLANT GRAINS M63-17389 15-26
STRESS RESPONSES OF PILOTS FLYING 6-HOUR MISSIONS OVERWATER IN F-104 AIRCRAFT	RELATION BETWEEN STRESS, STRAIN RATE, AND TEMPERATURE IN BEHAVIOR OF SOLID PROPELLANTS N83-1739D 15-26
SAN-TDR-62-112 N63-12738 D6-16	HELICOPTERS - ROTOR AERODYNAMICS, PROPULSION AND
FLEXIBILITY MATRICES FOR ELEMENTS OF CONSTANT AND VARIABLE CROSS SECTIONS UNDER GENERAL LOADING ARL-5M-279 06-33	DRAG, STABILITY AND CONTROL, STRESSES AND LOADS. VIBRATION, AND FLUTTER N63-17987 16-04
PERSONNEL RESTRAINT STUDIES FOR ADVANCED MANNED	ULTRASONIC INSPECTION - ALUMINUM AND SOCIUM CHLORIDE SINGLE CRYSTAL DEFORMATION AND STRESS
SPACE VEHICLES AMRL-TDR-62-128 N63-13143 07-16	CYCLING - DEFECT FORMATION ASD-TDR-62-186, PT. II N63-18393 17-25

FATIGUE TESTING OF TURBINE BUCKETS - PART 1, METHOD FOR VIBRATION, TEMPERATURE, AND STRESS STRESS MAVE INTERACTION IN SOIL-LIKE MEDIUM -THEORETICAL ANALYSIS OF BLAST ON UNDERGROUND

PROTECTIVE CONSTRUCTION SWC-TDR-63-43		18-33	ERR-AN-080	AT STANDED BUILDING	4-33
HEMORRHAGE IN ANIMALS THAT HA COAGULANTS - EFFECT OF STRESS	VE RECEIVED AN	GICAL	INDIVIDUAL & GROUP STRESSES ARIS CONFINEMENT	N63-23217 2	4-14
SYSTEMS INTERNAL STRESSES DEVELOPED 1	N63-18964	18-16	STRESS STATE SOLUTION FOR THEORY PHOTOVISCOELASTICITY BY INTEGRAL	OPERATION	
COMPOUND DURING LONG TERM STO TESTS AND INSTRUMENTATION	RAGE - STRAIN	GAUGE	SPHERICAL STRESS WAVES AND FRACT	URES IN SOLIOS	23
NOLTR-62-79 VISCOELASTIC PROPERTIES OF PL	N63-19043	18-33 VINVI	PRODUCED BY HYPERVELOCITY IMPACT AEDC-TDR-63-197		4-11
CHLORIDE - STRESS RELAXATION CONCENTRATION AND POLYMER STR	CURVES, PLASTI		GENERAL AND COMPARATIVE BIOLOGY ORGANISMS UNDER EXPERIMENTAL STR NASA-CR-52082	ESS CONDITIONS	4-16
PHOTOPLASTICITY EXPERIMENTS - RELOADING EFFECTS ON NITROCEL AROD-1263-20		18-33	COMPUTATIONS FOR STRESS AND STRE IN CIRCULAR CYLINDRICAL SHELLS N CUTOUT	SS CONCENTRATIO	ON
DISLOCATION-GENERATED INTERNAL SOLUTIONS - STRESS ANALYSIS	L FRICTION IN N63-19448	ATOMIC 19-23	APPARATUS FOR MEASURING STRESS R IN SHEAR OF VISCOELASTIC MATERIA	LS	338
DEFORMATION AND ANNEALING OF TANTALUM-TUNGSTEN ALLOYS AT CL LA-2871		19-18	BRL-MEMO-1498 ELASTIC CURVES REPRESENTING PARA SHAPES AND STRESSES		4-33
DISLOCATION INTERSTITIAL BIND			ARC-CP-665		4-82
ASING OF TANTALUM-OXYGEN ALLO STUDIES TO DETERMINE YIELD IN	Y AND FLOW STR	ESS	STRESS AMALYSIS STRESS ANALYSIS FOR PROBLEMS IN A&ES-62-18	VISCOELASTICIT	Y 2-23
MASTER CURVES AND VISCOELASTI AMORPHOUS POLYMERS IN STRESS ONR-TR-RLT-61	RELAXATION	19-07	ENERGY ABSORPTION OF GRANULAR ME ONE-DIMENSIONAL COMPRESSION - ST SWC-TOR-62-91	RESS ANALYSIS	TO 4-33
STRESS RELAXATION OF MONODISP POLYSTYRENE - SHEAR VISCOSITY ONR-TR-RLT-63	ERSE AND POLYD AND SHEAR ELA		PHOTOELASTIC DETERMINATION OF ST BENDING OF THIN CYLINDRICAL NOZZ PRESSURE VESSELS	LES IN SPHERIC	
STRESS TEST OF RELATIONSHIP B IN RESPIRATION & OXYGEN DEFIC DVL-228	ETWEEN APNEIC	PAUSE 19-16	STRESS ANALYSIS OF CIRCULAR CYLI	N63-23687 2	WETH 4-33
PREDICTION OF STRUCTURAL RELI- VEHICLE MODEL - RESPONSE TO AL STRESS	ABILITY IN FLI	GHT	STRESS CALCULATION NONDESTRUCTIVE TESTING OF BRITTL BEHAVIOR OF CERAMICS — MAXIMUM S OF GLASS FIBERS, CAPACITANCE OF	E FRACTURE TRESS CALCULAT	
ASD-TDR-62-801	N63-21115	21-02	ASD-TR-61-436, PT- 1	N63-15065 1	1-18
DEFECTS IN ANTIMONY DOPED SIL GRADIENTS, RADIAL STRESS, DIS PRECIPITATION		P, AND 21-18	DEFORMATION AND STRESS CALCULATI ACCELERATED CASE-BONDED SOLID PR FINITE LENGTH	OPELLANT GRAIN	
ACOUSTIC PROPAGATION UNDER APPASO-TOR-63-509, PT. 1	N63-21302	21-18	DEFLECTION AND STRESS CALCULATION DEFLECTED BY MOVING MASS NASA-TN-D-1928	T MIL STATE (595)	6-30
EFFECT OF MECHANICAL STRESSES SPACE BIOLOGY	ON PHYSIOLOGY N63-21518	22-16	STRESS CONCENTRATION INFLUENCE OF COUPLE-STRESSES ON	59C1-C-NT-W	10.80
STRESSES NEAR DISCONTINUITY IN		MALE THE STATE OF THE STATE OF	CONCENTRATION	N63-10086 0	01-33
R63SD61	N63-21821	22-18	AROUND HOLES IN SHELLS		INS 13-33
STRESS-STRAIN ANALYSIS OF SIN	GLE CUBIC CRYS N63-21850	TALS 22-25	DYNAMIC STRESS CONCENTRATION FAC PULSE FREQUENCY		IN OF
GROUP DECISION-MAKING AND COM- UNDER CONDITIONS OF STRESS AND SELF-ORGANIZING SYSTEM		TTERNS 22-08	WAL-TR-811.6/1 STAINLESS STEEL NOTCH STRENGTH A	T CRYOGENIC	12-19
GENERATION OF RESIDUAL STRESS IN THERMO-VISCOELASTIC BODIES	ES AND DISTRIB	MOITU	TEMPERATURES - LOAD AND STRESS C FACTOR - NICKEL ALLOY ASD-TOR-62-930	DNCENTRATION N63-16714 1	14-18
TELL STOLEN SATE AND		22-33	PHOTOELASTIC STRESS MEASUREMENT		ENED
STRESS RELAXATION DUE TO SMALL DEFORMED VISCOELASTIC MATERIAL AGES-63-5	L	1ED TO 22-33	INTERSECTION OF CYLINDER AND RED SM-62-8	N63-18226	17-33
VISCOELASTIC COMPRESSIBILITY	NATURE OF DESCRIPTION	YSIS	STRESS CONCENTRATION EFFECT ON B TENSILE DEFORMATION, AND PLASTIC AND METALS	FLOW IN CERAP	770
DEFLECTIONS AND STRESSES IN D	RTHOGONALLY ST	IFFENED	ASD-TDR-63-380	N63-20703	
PLATES SUBJECTED TO PURE TWIS	N63-22797	23-33	THREE-FUNCTIONS-SET SOLUTION FOR CONCENTRATION IN PLATES OF ARBIT ASD-TOR-63-515	RARY THICKNESS	s ZZ-33

DESIGN OF TWO REGION SOLENDIDS FOR HIGHER MAGNETIC EFFICIENCY & REDUCTION OF STRESS LEVEL - HIGH

DIFFERENTIAL EQUATIONS FOR DETERMINING STRESS AND DISPLACEMENT IN UNSYMMETRICALLY LOADED CONICAL SHELLS 24-33 DRCED 24-14

24-23 DS 24-11 AL WS 24-16 FTON 24-33 DULUS 24-33

24-02 ITY

22-23 70 24-33

CAL 24-02

WITH 24-33

TION INES 11-18

INS OF 13-26 NE 16-30

01-33 10NS 03-33 10N OF 12-19

14-18 ENED 17-33 MICS 21-33

SS 22-33

SNETIC

FIELD CRYOGENIC MAGNET	N63-23287 - 24-09	BRITTLE FRACTURE MECHANICS - STRESS
COMPUTATIONS FOR STRESS AND S IN CIRCULAR CYLINDRICAL SHELL CUTOUT	S WITH CIRCULAR	EFFECT OF INTERNAL CRACKS ON DISTRIBUTION OF STRESS IN THIN ELASTIC SHEETS AND CYLINDERS
RESS CORROSION CRACKING OF	HIGH-STRENGTH ALLOYS N63-11438 03-18	GEOMETRIC PROPERTIES AND ELASTIC STRESS DISTRIBUTIONS IN CASSINIAN DOMES
STRESS, CORROSION, AND CRACKI	KEL STEEL	NASA-TN-0-1741 N63-18232 17-23 STRESS DISTRIBUTION NEAR CRACK IN TWO-DIMENSIONAL
MECHANISM OF STRESS CORROSTON	N63-13472 08-18 I IN STAINLESS STEELS.	ELASTIC SHEET
CRACKING AND FAILURE STUDY ARF-2181-12	N63-15179 11-18	OF ADHESIVE BONDED JOINTS ASD-TDR-63-93
STRESS CORROSION OF HIGH STRE ALLOYS - SIMULATED ENVIRONMEN		GENERATION OF RESIDUAL STRESSES AND DISTRIBUTION IN THERMO-VISCOELASTIC BODIES N63-22042 22-33
STRESS CORROSION CRACKING OF	TITANIUM ALLOY AT	THEORETICAL PLASTICITY AND DETERMINATION OF STRESS
ROOM AND ELEVATED TEMPERATURE ASD-TR-61-713	NA3-18404 13-10	DISTRIBUTION DUE TO TRANSVERSE CRACK IN SHEET UNDER TENSION RAE-R-STRUCT-278 N63-22211 23-33
STRESS-CORROSION CRACKING OF OTS-51084	METALS N63-15951 13-18	STRESS FUNCTION STRESS FUNCTIONS IN CONTINUUM MECHANICS
STRESS CORROSION ON HIGH STRE	NG3-16075 13-17	RIVER DESERVED OF REPRESENTATION AND CONCESSION ASSESSMENT AND CONCESSION AND CON
KINETICS OF STRESS CORROSION STRUCTURAL ALLOYS AT ROOM AND TEMPERATURES - MICROSTRUCTURE	ELEVATED EFFECTS	STRESS MEASUREMENT MINIMUM WEIGHT DESIGN OF STRUCTURES OPERATING IN AN AEROSPACE ENVIRONMENT ASD-TDR-763 M63-10091 01-34
ASD-TR-61-713, PT. II MARTENSITIC STEEL ALLOYS SUSCEPTION - IMMERSION TESTING	N63-16690 14-33	AXISYMMETRIC HYPERVELOCITY IMPACT THEORY — COMPUTER SUBROUTINES APGC-TDR-62-59 N63-10599 02-3
ASD-TOR-62-876 STRESS CORROSION TESTING OF P	IGH STRENGTH STEELS -	SEGMENTED ROCKET MOTOR CASE - STRESSES IN LAP
MARTENSITE ALLOY 06-7502-3	N63-18078 16-18	SM-42516 M63-11171 03-2
STRESS CORROSION CRACKING OF ALLOYS UNDER TENSION IN ATMOS	PHERE	AAE-62-1 N63-13000 07-3
Y-1417 STRESS CORROSION RESISTANCE (F STAINLESS STEEL	SHALLOW SHELL THEORY APPLIED TO EQUILIBRIUM AND BUCKLING AROD-2028-14 N63-13540 08-3
MATERIAL HEAT TREATED TO SPEC FIDM-2979 STRESS-CORROSION CRACKING OF	N63-21648 22-18	STRESS ANALYSIS OF SANDWICH PLATES AND SHELLS - ATTACHMENTS, DESIGN APPLICATION, FABRICATION, MECHANICAL PROPERTIES, TESTING - BIBLIOGRAPHY
	N63-22176 23-18	SM-42883 M63-13669 U8-3:
STRESS CORROSION PROPERTIES (ALUMINUM ALLOYS NASA-TM-X-50924	N63-23014 24-18	APPLICATION OF PHOTOELASTICITY IN MISSILE INDUSTRY - STRESS ANALYSIS OF PROPELLANT GRAIMS N63-14259 10-2:
STRESS CORROSION OF HIGH STRE	U.Z.J. JESUS SERVER PRESENTED	CONFORMAL MAPPING AND STRESS DETERMINATION IN
SPOIR-26, SUPPL. I	N63-23469 24-33	S-38 N63-14303 10-20
CONTRIBUTION TO SOLUTION OF I	EFFECTIVE BANDWIDTH.	PHOTOELASTICITY AND MECHANICAL STRESS MEASUREMENT: OF ARALDIZE-B RAE-TRANS-1022 N63-14335 10-3:
STRUCTURAL ENGINEERING EFFECT OF STRESS GRADIENT AND NOTCH STRENGTH OF ERITTLE AND	DUCTILE MATERIALS	CREEP AND STRESS ANALYSIS OF TURBINE DISK MODELS AT HIGH TEMPERATURE IN STEEL TEST CHANGER TIL/T-4957 N63-14725 11-3
ASD-TR-61-725 STRESS DISTRIBUTION DUE TO LO	AND ADDRESS OF THE PARTY OF THE	METHOD FOR DEFLECTION AND STRESS ANALYSIS IN PERFORATED MATERIAL AND ROLLED-IN TUBE EFFECT - REACTOR TECHNOLOGY M63-15247 12-3
DISLOCATION ME-3 DYNAMIC FIELDS - STRESS AND OF CONSTANTLY MOVING ENERGY :	VELOCITY DISTRIBUTIONS	EFFECT OF STRESS GRADIENT AND STRESS BIAXIALITY OF NOTCH STRENGTH OF BRITTLE AND DUCTILE MATERIALS ASD-TR-61-725 M63-15333 12-3
PLATES - ELASTODYNAMICS OF MO MRC-311 GENERAL STRESS DISTRIBUTION I	IN IMPELLER WHEELS	LOW CYCLE FATIGUE DATA FOR MULTIAXIAL STRESS ANALYSIS - EFFECT OF COLD DRAWING & SHEAR SPINNIN ON STRENGTH OF STAINLESS STEEL & TITAMIUM ALLOY
ASD-TDR-62-1013	N63-1648014-33	CVC-2-53420/3R411 H63-15913 13-3

STRESS DISTRIBUTION AROUND HOLES IN SPHERICAL
SHELL MEMBRANE UNDER INTERNAL PRESSURE
RE-163
N63-17671 16-33

HIGH ENERGY IMPACT DEVICE FOR SIMULATING
REPETITIVE FIRING OF LARGE MEADON COMPONENTS DYNAMIC STRESS & FATIGUE MEASUREMENTS
N63-16616 14-33

PHOTOELASTIC STUDIES OF DYNAMIC STRESSES IN LOW MODULUS MATERIALS - HIGH SPEED PHOTOERAPHIC AND POLARISCOPIC TECHNIQUES - STRUCTURAL DYNAMICS	ALLOYS 11TRI-86007-4 N63-21478 22-18
N63-16624 14-33	STRESS RUPTURE AT ELEVATED TEMPERATURE OF
FLOW STRESS, TRANSITION TEMPERATURE, AND GRAIN BOUNDARY HARDENING OF SILVER-MAGNESIUM ALLOYS WADD-TR-60-184, PT. IV M63-16667 14-18	A072 N63-21880 22-18 STRESS-STRAIN DISTRIBUTION
ULTRASONIC TECHNIQUES FOR NONDESTRUCTIVE	MULTIRANGE PRECISION TORQUE MEASURING SYSTEM R-367 N63-12776 06-15
MEASUREMENT OF RESIDUAL STRESS WADD-TR-61-42, PT. III N63-16740 14-33	PLATES CONSTANTS OF LAMINATES OF ORTHOTROPIC N63-13174 07-33
AUTOMATIC AREA COMPENSATOR FOR CONSTANT ANALYSIS OF SPECIMEN STRESS IN TENSILE TESTING MACHINE TEAM-247 N63-16971 14-33	STRESS-STRAIN PROPERTIES OF BRITTLE MATERIALS TO VERY HIGH TEMPERATURES
SPACE MISSION RELIABILITY PREDICTION THROUGH TIME- STRESS AWALYSIS N63-17282 15-31	TID-17887 N63-14498 10-33 ELASTIC-PLASTIC RESPONSE TO HEAT PULSE FOR AN
ELECTROENCEPHALOGRAPHY IN SINULATED STRESSES OF SPACE FLIGHT WITH REFERENCE TO VIBRATION PROBLEMS	INFINITE PLATE OF FINITE THICKNESS - NONISOTHERMAL STRESS-STRAIN RELATIONS N63-16343 14-23
NASA-CR-50206 N63-17729 16-16 PHOTOELASTIC STRESS MEASUREMENT AT RING-STIFFENED	CYCLING FATIGUE BEHAVIOR OF MATERIALS FOR SUPERSONIC TRANSPORTS - YENSILE STRESS-STRAIN DATA NASA-CR-50365 N63-17221 15-33
INTERSECTION OF CYLINDER AND REDUCING COME SM-62-8 N63-18226 17-33	TENSION AND STRESS STRAIN DISTRIBUTION IN NOTCHED
90172md 271977	METAL
STATIC STRENGTH OF STIFFENEO SHEET WITH CENTRAL NOTCH - TESTING OF TWO ALUMINUM ALLOYS NASA-TN-D-1943 17-18	ASD-TDR-63-361 N63-18088 16-18 FLEXIBLE WHEEL STRESS STRAIN DIAGRAMS
STRESS ANALYSIS OF VISCOELASTIC CYLINDER	ADR-04-05-62-1 N63-18097 16-34
AROD-1892-5 N63-19358 18-33 STRESS ANALYSIS AT SEVERAL JUNCTIONS OF	STRESS-STRAIN DISTRIBUTION OF A VISCOELASTIC SOLID - TORSIONAL VIBRATION OF CIRCULAR CYLINDER WITH RIGID END MOUNTINGS
PRESSURTZED SHELLS N63-20510 20-33	EN-13-14 N63-18182 16-33
MECHANICAL PROPERTIES OF SOLID PROPELLANTS AND APPROXIMATE LAPLACE TRANSFORM INVERSION METHODS IN VISCOELASTIC STRESS ANALYSIS	LOW TEMPERATURE TENSILE & MOTCH PROPERTIES, STRESS AND STRAIN DISTRIBUTIONS, & WELDING TESTS OF AUSTENITIC STAINLESS STEELS
P-63-13 N63-20547 20-26	ARMA-TR-63-08 N63-20624 20-18
GAUGE DESIGN FOR MEASURING FREE FIELD STRESS. STRAIN, AND ACCELERATION AFSWC-TDR-63-45 M63-20821 21-33	PHOTOELASTICITY & MOIRE METHODS USED TO STUDY DYNAMIC, THREE-DIMENSIONAL STRESS DISTRIBUTIONS AFSWC-TDR-63-48 N63-20667 20-33
STRESS RATIO EXPERIMENT AND THEORY OF SUPERSONIC FLUTTER IN PANELS - LENGTHIMIDTH AND STRESS RATIOS TO PREVENT	STRESS-STRAIN DISTRIBUTION OF ELASTIC SHELL AS FUNCTION OF FORCE & MOMENT CONCENTRATION JPRS-21084 N63-22021 22-33
FLUTTER OF VARIOUS THICKNESSES AT MACH 3 NASA-TN-D-1948 N63-21055 21-33	STRESS-STRAIN DIAGRAMS FOR TUNGSTEN-FIBER-
STRESS RUPTURE STRESS-RUPTURE TESTING OF CAST NICKEL ALLOYS AT	REINFORCED COPPER COMPOSITES NASA-TN-D-1881 N63-22112 22-18
BOO-DEG	STRETCH FORMING
FTD-TT-62-720/16264 N63-10352 01-33	CRYOGENIC STRETCH-FORMING OF SOLID PROPELLANT
OF AN IRON-, NICKEL-, AND COBALT-BASE ALLOY	ROCKET CASES N63-13708 08-17
NASA-TN-D-1458 N63-10898 02-33 EXAMINATION OF MECHANICAL PROPERTIES OF TUNGSTEN	HIGH STRENGTH ALLOYS DEVELOPED BY CRYOGENIC STRETCH-FORMING N63-20141 20-18
SHEET AT VERY HIGH TEMPERATURES NASA-TH-D-1310 N63-12926 07-18	FABRICATION OF 65.5-INCH DIAMETER SIMULATED ROCKET MOTOR CASE BY CRYOGENIC STRETCH-FORMING
THE PROPERTY OF THE PARTY OF TH	N63-22087 22-26
TENSILE AND STRESS-RUPTURE PROPERTIES OF A TANTALUM HODIFIED NICKEL-BASE ALLOY NASA-TN-D-1531 N63-14402 10-18	STRICTION S ELECTROSTRICTION
HIGH TEMPERATURE REACTOR MATERIAL - STRESS-RUPTURE	STRING SHALLARD ARREST BOOMS, THURSDARD, ARRESTS, BULLDEPLEY
MOLYBDENUM, TANTALUM, TUNGSTEN - RADIATION EFFECTS GEMP-23A N63-17554 16-33	BOUNDS FOR THE PRINCIPAL FREQUENCY OF NONUNIFORMLY LOADED STRINGS
TANTALUM ALLOYS - STRESS RUPTURE, DISPERSION,	MRC-341 N63-11448 03-20
OUCTILITY, WELDING ASD-TDR-62-594, PT. II N63-17882 16-18	STRIP HEAT TRANSFER OF MAVE STRIPS IN A LONGITUDINAL AIR
IMPROVING THERMAL FATIGUE AND STRESS RUPTURE LIFE OF FIRST STAGE TURBINE BLADES OF J-79-5 ENGINE	STREAM FTO-TT-62-971/162 N63-10344 01-13
R63FPD146 N63-18837 18-33	BUCKLING OF THIN-WALLED CIRCULAR CYLINDRICAL SHELL HEATED ALONG AXIAL STRIP
HIGH TEMPERATURE REFRACTORY MATERIAL PROGRAM - STRESS RUPTURE AND IRRADIATION DATA FOR TUNGSTEN,	SUDAER-142 N63-13473 08-33
MOLYBDENUM, AND TANTALUM GEMP-25A M63-20138 20-18	STRONGARM ROCKEY ELECTRON DISTRIBUTION IN IONOSPHERE - STRONGARM
DISPERSION STRENGTHENING TO IMPROVE CREEP AND	ROCKET MEASUREMENTS BRL-1187 N63-16942 14-04
STRESS RUPTURE PROPERTIES OF VANADIUM & NIOBIUM	STATE SHOWS IN A COURT OF STRUCK AND A STRUCK OF STRUCK

2-18

2-18

6-15 7-33 TO 0-33

HAL 1-23

DATA 5-33 HED -18 5-34 R -33 ESS -18

-33

-33

-18

-17 -18 KET -26

HLY -20 AIR -13

-33

-04

STRONTIUM	Auto Hara	2006 T	MACHINE of a to See 1-0-HT-AZAM	N63-11057 03-34
ISOMORPHIC SUBSTITUTIONS OF CALCI IN CALCIUM HYDROXYAPATITE AE-96	N63-20240	20-07	FLEXIBILITY MATRICES FOR ELEMENTS VARIABLE CROSS SECTIONS UNDER GEN ARL-SM-279	
MAGNETIC AND PHYSICAL PROPERTIES AND STRONTIUM FERRITES FTD-TT-62-1539/18284	OF BLENDED N63-23730	84-19	ELASTO-PLASTIC ANALYSIS OF STRUCT AND TWO-DIMENSIONAL TEMPERATURE D TIME DEPENDENT ANALYSIS	URES UNDER LOAD
STRONTIUM CHLORIDE LOW TEMPERATURE THERMODYNAMIC PRO STRONTIUM CHLORIDE & STRONTIUM FI 8M-RI-6316	OPERTIES OF LUGRIDE N63-23714	24-13	OXIDIZER RESEARCH - THERMOCHEMIST ANALYSIS, BOND EMERGY, LATTICE EM	RY, STRUCTURE
STRONTIUM COMPOUND	. אור שלו מול .	A DE-101		N63-15174 11-07
HEATS AND FREE ENERGIES OF FORMAT OXIDE AND STRONTIUM OXIDE BM-RI-6171	N63-12778	777	EVALUATION OF TECHNIQUES FOR CONS	TRUCTING MODEL
BREAKDOWN FIELDS AND BULK DIFFUS STRONTIUM TITANATE - FERROELECTRI DIELECTRIC BREAKDOWN	C AND NONL	NEAR	STRUCTURAL ANALYSIS OF COPPER-ANT THERMOELECTRICAL MATERIALS	INONY-SELENIUM
CHRISTING - ACTUAL LIPLAY, ACTUALLY	N63-19329	C14100 F.1	STRUCTURE ANALYSIS OF LIQUID BY	-RAY DIFFRACTION
MICROWAVE PROPERTIES OF FERROELEC CONSTANTS OF STRONTIUM TITANATE AFCRL-62-594	N63-21220	21-19	AND REFRACTIVE INDEX STUDIES MS-10039-M	N63-16962 14-23
STRONTIUM FLUORIDE		STAN E	STRUCTURAL SYNTHESIS CAPABILITY F STIFFENED WAFFLE PLATES	OR INTEGRALLY 15-34
LOW TEMPERATURE THERMODYNAMIC PRO STRONTIUM CHLORIDE & STRONTIUM FO 8H-R1-6316	OPERTIES OF LUORIDE N63-23714	24-13	STRUCTURAL ANALYSIS OF REFRACTORY CHROMIUM, MOLYBDENUM, AND TUNGSTE DMIC-182	ALLOYS - HANGO
STRONTIUM HYDRIDE	273AT2 DT	V AND	THE CHANGE BENEGES OF MENEXUM I	STRUCTURAL DURINGTA
SPECTRAL INVESTIGATION OF METALL! REVEALING NEW BANDS FOR STRONTIUM MOLECULAR STRUCTURE		22-23	STRUCTURAL ANALYSIS OF PLASMOIDS ELECTRODELESS PLASMA GUN MATT-196	N63-17590 16-24
SPECTRAL BAND ANALYSIS OF STRONTS		22-23	BUCKLING OF STIFFENED STRUCTURES PANELS - BIBLIOGRAPHY SB-62-37	The state of the s
STRONTIUM 90	STREAMENT THERE	1470 - 12	ANALYSIS OF STRUCTURES WITH RANDO	SM EH3AM
SNAP-7 PROGRAM - STRONTIUM-90 FUI ELECTRIC GENERATOR	THE CONTINUES.		STRUCTURAL ANALYSIS OF VISCOELAST	N63-1776316-20
HNO-P-2483-6 HAY2 - 29401HBY BOA	27402 17466	01-06	PROPELLANT GRAINS	No. of Contract of
EFFECT OF STRONTIUM-90 IN THE OS	229 953 350	N GAN	AIAA PAPER-63-284 DIESO JASUTUST	STOSHOD JATTOTO
JPRS-17161 - 10912 NOMERA GRIJJON	N63-11778	04-16	SPHERICO-SYMMETRICAL LAMINAR FLOW FLAME - STRUCTURAL ANALYSIS	N63-18506 17-26
CORRELATION OF BETA ACTIVITY AND AIR CONCENTRATIONS WITH MUCLEAR 'EXPECTED RADIOACTIVITY LEVEL INCI	TESTING PATT		STRUCTURE AND INITIATION OF DETOU CONDENSED PHASE - TRANSVERSE SHOW	
STRONTIUM-90 FUEL THERMOELECTRIC SOURCE FOR NAVY FLOATING MEATHER HND-P-2835		IAP 7D	STRUCTURE AND STABILITY OF SQUARE STEADY DETONATION - HYDRODYNAMIC	STABILITY N63-18544 17-20
EFFECT OF SILVER HALIDE CONTENT ON RADIATION DOSIMETER RESPONSE OF TRIBUN-90 BETA RADIATIONS - R	TO STRONTIUM	1-90/	STRUCTURE AND INSTABILITY OF DETO	ONATIONS N63-18540 17-26
ATERIALS AT VARIABLE WICH LOADING	N63-17309	15-23	STRUCTURAL RESPONSE TO INTENSE EL RADIATION - RADIATION EFFECT	ECTROMAGNETIC
SNAP-78 STRONTIUM-90 FUELED THERI GENERATOR FOR COAST GUARD AUTOMAT MND-P-2836		TATION ST	RUCTURAL BEAM ACOUSTIC RADIATION FROM A BEAM AT	TTACHED TO A THIN
RADIOISOTOPIC SEMICONDUCTORS - EL VOLTAIC EFFECT & AUGMENTING SEEBI STRONTIUM-90 & CERIUM-144	CY BEECT !		VIBRATIONS IN UNIFORM BEAR-COLUMN THEORY - EQUATIONS OF MOTION FOR ERR-AN-110	S BY TIMOSHENKO
PETETTIVE FERING - ANDENTWINDOWN	25 AUTNOO 0	39071	APPLICATIONS OF THEORY OF DYNAMIC	- NO. WOLLDAND 10004
THERMAL REACTIVITY OF AROMATIC HI WADD-TR-61-72, VOL. X	POROCARBONS N63-10557	01-19	ELASTIC SYSTEMS - RODS, ARCHES, I SHELLS SSD-TOR-42-154, VOL. 111	HEARS, PLATES, AND
STRUCTURAL ANALYSIS CODE ACTUATED RANDON LOAD APPARAT FATIGUE TESTS ON LARGE STRUCTURES	TUS /CARLA/	111-23	NONLINEARITY EFFECTS IN SEVERAL (BEAN VIBRATION PROBLEMS MASA-TH-D-1872, REV.	CLARPED-CLARPED
MP-214 AMITA DAMIZ 609 BEIVED-FIA		01-33	The same of the same of the same of the same of	N63-14279 10-33
DIGITAL COMPUTER ANALYSIS OF STATINGETERMINATE STRUCTURES NASA-TN-0-1666		02-33	PLASTIC BEHAVIOR OF CONTROL SURFA SUBJECTED TO AIR BLAST LOADING - RESULTS FOR BEAM TYPE STRUCTURES	ANALYSIS AND
THEORY AND APPLICATION OF FILAMENT-HOUND PRESSURE VESSELS	STRUCT	TURES -	IMPACT RESISTANCE TEST OF CONCRET	

TENSILE IMPACT ON RUBBER AND NYLON - IMPULSE WAVE PROPAGATION AND CREEP IN POLYMERIC MATERIALS - STRUCTURAL DYNAMICS N63-16617 14-19

IMPACT TESTING MACHINE - PLAIN, REINFORCED, AND PRESTRESSED BEAM RESULTS M63-15214 11-33	PYROLYTIC GRAPHITE DEFORMATION AND STRUCTURAL TRANSFORMATION JPL-TR-32-360 N63-13442 08-19
BRACING REQUIREMENT OF PLASTICALLY DESIGNED WIDE- FLANCED STEEL BEAMS FRITZ ENG. LAB205H.6 N63-15330 12-34	STRUCTURAL DYNAMICS OF ROTOR AIRCRAFT - STABILITY, RESONANCE AMPLIFICATIONS OF ROTOR-BLADE STRESS AND MEASUREMENT OF ROTOR HUB FORCES AND MOMENTS
EXPLOSIVE DEFORMATION OF METAL BEAMS — DEFLECTION VS. TIME MEASUREMENTS OF CENTRALLY LOADED FREE AND CLAMPED BEAMS — STRUCTURAL DYNAMICS N69-16613 14-33	N63-14705 10-33 SURVEY OF AEROTHERMOELASTICITY - REENTRY VEHICLES, X-15 AIRCRAFT, STRUCTURAL DYNAMICS, THERMAL
TORSIONAL RIGIDITY OF STRUCTURAL BEAM - INTERMITTENTLY STIFFENED I BEAM TEAM-246 N63-16970 14-34	STRESS. VIBRATION AND PANEL FLUTTER N63-14895 11-02 EVALUATION OF TECHNIQUES FOR CONSTRUCTING MODEL
MINIMUM WEIGHT DESIGN OF STATICALLY INDETERMINATE BEAMS SUBJECTED TO SYSTEM OF FIXED LOADS AND ROVING LOADS - WEIGHT ANALYSIS	STRUCTURAL ELEMENTS MIT R62-15 N63-16311 13-34 STRUCTURAL DYNAMIC STABILITY OF 6000-LB THRUST
C11-86 N63-18349 17-34	LIQUID-PROPELLANT ROCKET ENGINE - DIRECT TANK
IMPACT ON ELASTICALLY CONNECTED DOUBLE BEAM SYSTEM - DIFFERENTIAL EQUATIONS OF MOTION N63-21808 22-33	JPL-TR-32-194 M63-16440 14-27 DYNAMICS OF STRUCTURES AND MATERIALS - STRESSES
NATURAL FREQUENCIES OF UNIFORM RECTANGULAR CROSS	AND LOADS N63-16603 14-34
SECTION FREE-FREE SANDWICH BEAMS NASA-TN-D-1967 N63-22897 23-33	TESTING OF STRUCTURAL MATERIALS AT HIGH STRAIN RATES - RATE DEPENDENCE OF DYNAMIC RESPONSE TO LOADING OR DEFORMATION - TEST METHODS EVALUATION NA3-16404 16-33
NORMAL MODE VIBRATIONS OF SYSTEMS OF ELASTICALLY CONNECTED PARALLEL STRUCTURAL BEAM N63-23646 24-34	N63-16604 14-33 EFFECT OF STATIC & DYNAMIC LOADING & TEMPERATURE ON YIELD STRESS OF IRON AND MILD STEEL IN TENSION
STRUCTURAL DESIGN ELASTIC STABILITY IN AIRCRAFT STRUCTURAL DESIGN N63-10913 02-34	AND COMPRESSION - STRUCTURAL DYNAMICS N63-16605 14-18
THEORETICAL AND EXPERIMENTAL CONVOLUTED STRUCTURES FOR ENERGY ABSORPTION N63-15652 12-33	INSTRUMENTATION FOR DYNAMIC DATA ACQUISITION ON ARTILLERY AND ROCKET LAUNCHER MEAPONS - TRANSDUCERS AND RECORDERS N63-16606 14-15
STRUCTURAL DESIGN OF AMPHIBIOUS GROUND EFFECT MACHINE N63-17533 16-04	PROPAGATION OF SHOCK WAVES INDUCED BY UNDERGROUND EXPLOSIONS - EFFECTS OF SOIL PROPERTIES - STRUCTURAL DYNAMICS N63-16607 14-11
POMER SPECTRAL DENSITY TECHNIQUE APPLICABLE FOR STRUCTURAL DESIGN CRITERIA ASRMDS-TM-62-4 N63-17670 16-34	DYNAMIC SIMULATION STUDIES OF SHOCK AND VIBRATION EFFECTS ON SURFACE VEHICLES - STRUCTURAL RESPONSE
AUTOMATION OF STRUCTURAL DESIGN PROCESS USING DIGITAL COMPUTERS - STRUCTURAL SYNTHESIS NASA-CR-50572 N63-18315 17-20 NIMBUS SATELLITE - STRUCTURAL CONCEPTS AND DESIGN	METHODS FOR PREDICTING BRITTLE FRACTURE TEMPERATURES OF ROLLED ARMOR STEEL - SURFACE VEHICLE DESIGN APPLICATIONS - STRUCTURAL QYNAMICS N63-16609 14-18
PERTAINING TO SYSTEMS FLEXIBILITY N63-18610 17-30 NIMBUS SATELLITE - CONCEPTS DEVELOPMENT OF PRESENT	DYNAMIC BEHAVIOR OF VTOL & STOL POWER TRANSMISSION SHAFTS OPERATING AT HYPERCRITICAL SPEEDS - SHAFT DESIGN - STRUCTURAL DYNAMICS N63-16610 14-34
STRUCTURAL DESIGN N69-18611 17-90 AERODYNAMIC AND STRUCTURAL DESIGN OF ROCKET NOZZLE	COMPARISON OF DYNAMIC AND STATIC TEST RESULTS FOR YIELD STRESS OF STEEL GUN TUBES AT HIGH LOADING
OPERABLE UNDER SEPARATED FLOW CONDITIONS - BELL MODE VIBRATIONS OF CONICAL MOZZLES NASA-CR-50692 18-02	RATES - DYNAMIC TESTING APPARATUS N63-16611 14-18
INTERFERENCE ASSOCIATED WITH STRUCTURAL DESIGN RADC-TDR-63-312 N63-20012 19-34	APPARATUS FOR DETERMINING DYNAMIC YIELD STRENGTHS OF STRUCTURAL MATERIALS AT VARIABLE HIGH LOADING RATES 14-33
STRUCTURAL DESIGN OF V/STOL AIRCRAFT RESULTING FROM DYNAMIC LOAD PROBLEM AND NONUNIFORM FLOW OF SHROUDED PROPELLERS N63-20361 20-04	EXPLOSIVE DEFORMATION OF NETAL BEAMS - DEFLECTION VS. TIME MEASUREMENTS OF CENTRALLY LOADED FREE AND CLAMPED BEAMS - STRUCTURAL DYNAMICS
ARIEL I - EVOLUTION OF STRUCTURAL DESIGN NASA-TN-0-1903 20-32	MEASUREMENT OF THERMAL STRESSES ARISING IN GUN
APPLICATION OF MODULAR AND SECTIONAL DESIGN TO GROUND EFFECT MACHINES - MOBILITY OF LOGISTICS OVER THE SHORE CARRIER	TUBES DURING REPETITIVE FIRING - PHOTOTHERMO- ELASTIC & ELECTRIC ANALOGY METHODS N63-16614 14-33
TCREC-TR-62-41 N63-21058 21-04 FORTRAM PROGRAM FOR STIFF MATRIX STRUCTURAL	EVALUATION OF METAL FORMING TECHNIQUES FOR TITANIUM HELMETS - PROJECTILE PENETRATION
FORTRAM PROGRAM FOR STIFF MATRIX STRUCTURAL DESIGN MASA-CR-51414 N63-21846 22-33	RESISTANCE - STRUCTURAL DYNAMICS N63-16615 14-18
STRUCTURAL DYNAMICS RIBBED PANEL RESPONSE TO ACOUSTIC EXCITATION NA3-10949 02-33	HIGH ENERGY IMPACT DEVICE FOR SIMULATING REPETITIVE FIRING OF LARGE MEAPON COMPONENTS - DYNAMIC STRESS & FATIGUE MEASUREMENTS
OVERANTES OF BOOSTER STRUCTURE, CONTROL, AND	TENETIE IMPACT ON BURBED AND MY ON - IMBU CE MAVE

DYNAMICS OF BOOSTER STRUCTURE, CONTROL, AND LOADING M63-10968 02-31

08-19

LITY,

10-33

CLES.

11-02

13-34

4-27

4-34

ON

RE ION 4-18

-15

JND -11

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-33

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-34

OR

-18

15

-33

33

33

18

13

STRUCTURAL MATERIAL CF PANEL CF SKIN

BERYLLIUM - STRENGTH, EFFICIENCY, DESIGN DATA,

4-33

EL

HIGH LOADING RATE TENSILE TESTING MACHINE - MEAPON NATERIALS TESTING APPLICATIONS - STRUCTURAL DYNAMICS - 1981 - 14-17 MEDIUM LOADING RATE TENSILE TESTING MACHINE -WEAPON MATERIALS TESTING APPLICATIONS - STRUCTURAL OVNAMICS 14-17 PRESSURE VESSEL TESTING UNDER HIGH PRESSURES AND HIGH LOADING RATES USING A HYDRODYNAMIC DEVICE - STRUCTURAL DYNAMICS M63-16620 14-34 STRENGTH AND DUCTILITY OF ROCKS UNDER CONFINING PRESSURE - STRUCTURAL DYNAMICS N63-16621 14-33 CORRELATION OF HIGH LOADING RATE REACTIONS WITH LON RATE TESTS IN METALS - PREDICTION OF DYNAMIC BEHAVIOR UNDER EXPLOSIVE LOADING DYNAMIC RESPONSE OF CYLINDRICAL SHELLS EXPOSED TO EXTERNAL BLAST LOADING - PERMANENT DEFORMATION PREDICTION - STRUCTURAL DYNAMICS PHOTOELASTIC STUDIES OF DYNAMIC STRESSES IN LOW MODULUS MATERIALS — HIGH SPEED PHOTOGRAPHIC AND POLARISCOPIC TECHNIQUES — STRUCTURAL DYNAMICS M63-16624 14 IMPACT DEVICE FOR MEASURING RESPONSE OF HIGH STRENGTH MATERIALS TO DYNAMIC LOADS - STRUCTURAL DYNAMICS M63-16625 14-33 DYNAMIC LOAD FACTOR FOR MISSILE STRUCTURE DESIGN -MASS-SPRING MATHEMATICAL MODEL USING THRUST AS FORCING FUNCTION - STRUCTURAL DYNAMICS M63-16626 14-34 AEROELASTICITY - INERTIA AND STRUCTURAL DAMPING TEST METHODS AND MEASUREMENT OF GEMERALIZED MASSES M63-17819 16-33 ANALYSIS OF STRUCTURAL DAMPING FOR CONTROL OF VIBRATION AND NOISE NASA-CR-50343 N63-18147 STRUCTURAL DYNAMICS PROBLEMS IN SUPPORT OF FUTURE SPACE MISSION NASA-TN-D-2059 14412 30 25 186H N63-19610 19-34 DYNAMIC LOADS PROBLEMS OF V/STOL AIRCRAFT OF CONVENTIONAL STRUCTURAL DESIGN N63-20358 20-04 STRUCTURAL ENGINEERING
CONTRIBUTION TO SOLUTION OF EFFECTIVE BANDWIDTH,
FLANGE STRESS DISTRIBUTION, BRIDGE DESIGN,
STRUCTURAL ENGINEERING N63-14309 10-2 1801 5 10 N63-14309 10-33 CONFERENCE ON AERODYNAMICALLY HEATED STRUCTURES - THERMAL PROTECTION AND STRUCTURAL ENGINEERING N63-16051 13-13 ENGINEERING RESEARCH SUMMARY - STRUCTURAL, CIVIL, MECHANICAL & ELECTRICAL ENGINEERING AERONAUTICS, METALLURGY, AGRICULTURE AND NUCLEAR PHYSICS CN-73194 N63-16103 13-01 XV-5A AIRCRAFT - PROPULSION SYSTEM AND STRUCTURAL N63-18138 STRUCTURAL HEATING
X-15 AIRCRAFT SKIN AND STRUCTURAL TEMPERATURE
DURING MACH 3.3 FLIGHT
NASA-TM-X-468
N63-13912 09-04 STRUCTURAL INFLUENCE COEFFICIENT /SIC/ SCATTERING FUNCTION AND STRUCTURE FACTOR FOR HARMONIC OSCILLATOR N63-14952 AEROELASTICITY - METHODS OF MEASURING STRUCTURAL INFLUENCE COEFFICIENTS: N63-17817 16-33

STRUCTURAL MATERIALS N63-10645 02-34 MECHANICAL PROPERTIES OF STRUCTURAL MATERIALS UNDER GENERAL STRESS AND RAPID MEATING AMC-RR-TR-62-5 M63-11435 CONTINUUM MECHANICAL BEHAVIOR OF ENGINEERING NATERIALS N63-12150 05-33 CORROSION RESISTANCE OF STRUCTURAL METALS TO MOLTEN LITHIUM HYDRIDE IM AIR, ARGON AND HYDROGEN ER-4774 N63-13545 00-1 APPLICATION OF FRACTURE MECHANICS TO ADMESIVE JOINTS TO ESTABLISH TOUGHNESS STANDARDS TO STRUCTURAL MATERIALS M63-13732 0 08-33 STRENGTH OF FILAMENTARY SHEET WITH BROKEN FIBER NASA-TN-D-1409 09-33 EVALUATION OF REINFORCED PLASTICS FOR PRIMARY STRUCTURE OF ARMY AIRCRAFT TRECON-TR-63-15 N63-13799 LONG-TIME CREEP EFFECT ON MECHANICAL PROPERTIES OF STRUCTURAL SHEET MATERIALS UNDER STRESS N63-14548 10-33 LONG-TIME CREEP EFFECT ON MECHANICAL PROPERTIES OF STRUCTURAL SHEET MATERIALS M63-14549 10-33 SURVEY OF 21 REACTOR VESSELS IN LIGHT OF ANTICIPATED EFFECTS OF MEUTRON IRRADIATION ON BRITYLE-RUPTURE PROPERTIES OF STRUCTURAL MATERIALS TID-17082 M63-14630 10-33 INSULATING AND STRUCTURAL MATERIALS FOR LIQUID HYDROGEN FUEL TANKS AFFTC-TR-60-43, VOL. III M63-14676 10 10-34 BUCKLING OF CLOSED SHELLS OF REVOLUTION - MATERIAL YIELD STRENGTH EFFECTS ON BUCKLING STRENGTH R-63-4 N63-14742 11-33 SURFACE AND MECHANICAL PROPERTIES OF STRUCTURAL MATERIAL - FATIGUE OF ALUMINUM IN VACUUM.
N63-14753 11-11-18 INVESTIGATION OF COMBINED EFFECTS OF RADIATION AND VACUUM ON STRUCTURAL MATERIALS FOR NUCLEAR SPACE-CRAFT COMPONENTS - MATERIALS SCIENCE FIX-147 M63-15057 11-19 HIGH TEMPERATURE MATERIALS FOR REACTOR N63-15201 11-18 THERMAL STABILITY OF TEFLON IN CONTACT WITH AUSTENITIC STAINLESS STEEL AND OTHER STRUCTURAL MATERIALS N63-15266 12 SUBSONIC HIGH TEMPERATURE ARC HEATED WIND TUNNEL TESTS FOR STRUCTURAL MATERIALS MASA-TN-D-1621 M63-15345 12-12-10 ALLOY STRUCTURES FOR HEAT EXCHANGER MATERIAL OF LIQUID PROPELLANT THRUST CHAMBERS RR-TR-62-7 N63-15409 12-27 KINETICS OF STRESS CORROSION FOR VARIOUS STRUCTURAL ALLOYS AT ROOM AND ELEVATED TEMPERATURES - MICROSTRUCTURE EFFECTS ASD-TR-61-713, PT. II M63-16690 16-33 BIREFRINGENT COATING TECHNIQUE FOR STUDYING WAVE PROPAGATION THROUGH A STRUCTURE - CONSTRUCTION OF HIGH SPEED CAMERA AND LIGHT SQUACE AROD-2571-3 M63-14694 14-3 FLOW AND FRACTURE IN METAL AND PLASTIC STRUCTURAL MATERIALS ARPA-E6 NAS-17177 NES-H63-17177 15-33 DAMPING OF STRUCTURAL MATERIALS UNDER BIAXIAL ASD-TDR-62-1030 N63-17101 15-33 MATERIALS FOR TRANSMISSION OF DEFLECTIONS UNDER

FIG PAFE RS SR

SSL

TRANSDUCERS ASD-TDR-62-834 N63-17883 16-33	SYMPOSIUM ON BALLISTIC MISSILE & SPACE TECHNOLOGY, 1962 - VOL I, SPACE VEHICLES, HYPERSONICS, REENTRY, STRUCTURES, MATERIALS & RELIABILITY
REALIZATION OF DESIGN CONFIGURATIONS IN STRUCTURAL MATERIALS - NEOS PROJECT	AH-84 N63-10370 01-61 STRUCTURAL INSTABILITY OF SOLID-PROPELLANT ROCKET
CAL-MM-1559-P-2 N63-18026 16-17 MIORIUM ALLOY AS STRUCTURAL MATERIAL FOR REENTRY	ENGINES N63-10854 02-33
VEHICLES D2-35105 M63-18650 17-19	FLIGHT VEHICLE STRUCTURAL VIBRATION ANALYSIS AND CONTROL, DAMPING, ACOUSTICS
MATERIAL PROPERTY HANDBOOK - MAGNESIUM, NICKEL AND	ASD-TOR-62-237 N63-10882 02-33
TITANIUM ALLOYS FOR STRUCTURAL USE IN AIRCRAFT N63-18835 18-18	RESIDUAL STATIC STRENGTH OF STRUCTURES CONTAINING CRACKS ARL/SM-288 N63-10907 02-33
STRUCTURES AND STRUCTURAL COMPOSITE MATERIALS FOR	ATMETING TO THE PROPERTY OF THE PARTY OF THE
MANNED ORBITAL SPACE STATIONS N63-18904 18-32	FABRICATION OF FORMED POLYURETHANE STRUCTURES IN A SPACE ENVIRONMENT N63-10923 02-19
AERONAUTICS IN THE SPACE AGE - AERODYNAMICS -	EXPANDABLE STRUCTURES, SPACECRAFT, SOLAR ENERGY
MATERIALS AND STRUCTURES - PROPULSION AND ENERGY CONVERSION N63-19060 18-01	COLLECTORS, RECOVERY ARC-R-77 N63-10951 02-34
LONG-TIME CREEP DATA ON STRUCTURAL SHEET METALS SUCH AS AM350 STAINLESS STEEL & TI-8AL-1MO-IV ALLOY N63-19433 19-33	STRUCTURAL SYNTHESIS OF SYMMETRIC WAFFLE PLAYE NASA-TN-0-1891 N63-11050 03-34
STRUCTURAL MATERIALS FOR MAGNETOHYDRODYNAMIC	THEORY OF FOLDING DEFORMATIONS IN EXPANDABLE STRUCTURES, TOROIDAL SHELLS
GENERATORS - REFRACTORY CONDUCTORS AND INSULATORS PHA-2125 N63-19442 19-24	NASA-TN-D-1690 N63-11056 03-34
COMPATIBILITY OF STRUCTURAL MATERIALS WITH HIGH PERFORMANCE CRYOGENIC LIQUID OXIDIZERS CONTAINING	AEROTHERMOELASTICITY SYMPOSIUM, 1961 ASD-TR-61-645 N63-11058 03-01
FLUORINE COMPOUNDS N63-19901 19-26	TRANSVERSE RUPTURE STRENGTH OF ALUMINA FIBER- CERAMIC COMPOSITE
RAIN EROSION EFFECTS ON AIRCRAFT AND MISSILE STRUCTURAL MATERIALS AND PROTECTIVE COATINGS AT	WAL-TR-371/53 03-18
SUBSONIC AND SUPERSONIC SPEEDS SB-62-6 N63-20032 19-17	ENVIRONMENTAL PROBLEMS OF SPACE FLIGHT STRUCTURES - PART II, METEOROID HAZARDS NASA-TW-D-1493 N63-11986 05-30
CRACK RESISTANCE OF STRUCTURAL MATERIALS - CRACK PROPAGATION RATE AND RESIDUAL STRENGTH N63-20098 20-18	SOURCES OF METALLIC CRYSTAL STRUCTURE DISLOCATIONS OBSERVED BY ELECTRON MICROSCOPY
	N63-12228 05-18
GLASS FIBERS AS STRUCTURAL MATERIALS FOR AIRCRAFT COMSTRUCTION MGL-20142 20-19	ANALYSIS OF VARIABLE GEOMETRY SPACE ERECTABLE
H65-20162 20-17	STRUCTURES CONCEPT BASED ON RING-SUPPORTED INTERLACED ARCH PRINCIPLES
GLASS FIBER REINFORCED PLASTIC STRUCTURAL MATERIAL N63-20163 20-19	NSL-62-228 N63-12355 06-34 DEFORMATION MECHANISMS OF SURFACES FOR EXPANDABLE
GLASS FIBER REINFORCED PLASTICS FOR AIRCRAFT	STRUCTURES WITH SCREW SHAPE
CONSTRUCTION OF OPTIMUM WEIGHT N63-20164 20-19	TO THE STATE OF THE STREET STATE OF THE STAT
GLASS FIBER REINFORCED PLASTIC STRUCTURAL MATERIAL PROPERTIES N63-20165 20-19	SELF ERECTING FLEXIBLE FOAM STRUCTURES FOR SPACE ANTENNAS - RECOVERY AND STRESS-STRAIN PROPERTIES - VACUUM AND SOLAR RADIATION EFFECTS
CERAMIC COMPOSITE MATERIALS FOR MISSILE STRUCTURAL	NASA-TN-D-1610 N63-13187 07-08
APPLICATIONS N63-20471 20-19	SELF-SEALING STRUCTURES FOR CONTROL OF METEOROID HAZARD TO SPACE VEHICLE
STRUCTURE AND PHYSICOCHEMICAL PROPERTIES OF CRYSTALLINE BODIES AND BEHAVIOR ON HEATING - SOLID	MSL-62-132-2
STRUCTURAL MATERIALS FTD-TT-62-911/162 N63-22575 23-19	OF F-ELECTRON TERMS - APPLICATION TO MAGNETIC
PREPARATION AND PROPERTIES OF FIBER-REINFORCED	PROPERTIES OF RARE EARTH IONS IN CUBIC MATRIX AFCRL-62-929 08-25
STRUCTURAL MATERIALS DNIC-176 N63-23361 24-33	FINE STRUCTURE OF METEOR-BURST SIGNALS RECORDED WITH HIGH SPEED MAGNETIC TAPES
STRUCTURE GIVAVIA ON HORSE A ROOM TA ROYD A ROYD AND A ROYD AREA OF THE ROYAL AND A ROYAL	TH-36 N63-14005 09-08
SA CLOSE PACKED STRUCTURE	STRESSES AND DEFORMATIONS OF PRESTRESSED, VERY
SA CRYSTAL STRUCTURE SA ELECTRONIC STRUCTURE SA MICROSTRUCTURE SA MICROSTRUCTURE	THIN SHELLS SUBJECTED TO ADDITIONAL LOADS - SHAPES OF INFLATABLE STRUCTURES ARDD-3065-1 N63-14067 09-33
SA MICROSTRUCTURE SA MOLECULAR STRUCTURE	HISTORY AND FUTURE OF EXPANDABLE STRUCTURES IN
SA NUCLEAR STRUCTURE	SPACE - DISCUSSION, APPLICATIONS AND
SA STIFF STRUCTURE SA THERMOSTRUCTURE	N63-14222 09-34
SA VARIABLE GEOMETRY STRUCTURE CF FORMATION	HEAT & IMPACT TEST ON INSULATED & UNINSULATED FUSE MECHANISM OF BALLISTIC MISSILE IN REENTRY
MINIMUM WEIGHT DESIGN OF STRUCTURES OPERATING IN	MASA-MEMO-12-5-58L M63-14758 11-02
AN AEROSPACE ENVIRONMENT ASD-TDR-763 N63-10091 01-34	FINITE ELASTIC SLUMP OF INFINITELY LONG, HOLLOW INCOMPRESSIBLE CYLINDER BONDED TO RIGID DUTER
	THE PERSON OF TH

06Y, L-01 KET 2-33 WD 2-33 ING

2-33 IN A 2-19

!-34 !-34

i-34 i-01

-18

-30 ONS

-34 LE -34 E - -08 D - 94

PES

-34 JSE -02

TUBE - FAILURE PREDICTION FOR ME GALCIT-SM-62-54	TAL AND RUBBER N63-15247 12-3	GROSS STRUCTURE AND STEREOCHEMISTRY OF DIMERS OF CYCLOBUTAME DERIVATIVE AROD-2914-13 N63-20975 21-25
PACKAGING INFLATABLE STRUCTURES MAPPING OF STRAIN-FREE SURFACE D FLAT ANNULAR DISK PACKAGE	EFORMATIONS FOR	MAGNETIC PROPERTIES OF THULIUM - EFFECT OF TEMPERATURE ON STRUCTURAL STABILITY
A STATE OF THE PARTY OF THE PAR	N63-15393 12-3	CONTROL SEASON TO SEE PROVINCE THE CONTRACT THE SEASON
RELIABILITY OF FATIGUE LOADED HE		DECAMETRIC REGION - NOISE STORMS
STATISTICAL METHOD OF ANALYSIS F RELIABILITY OF HELICOPTER COMPON		COMPUTATION OF LOWER LIMIT OF MASS OF A MAIN
DEFORMATION OF FLEXIBLE INFLATAB		NASA-RP-13 N63-21099 21-29
MASA-TN-D-1919 A GUAT JHASH MORY	N63-15777 13-3	PREDICTION OF STRUCTURAL RELIABILITY IN FLIGHT VEHICLE MODEL - RESPONSE TO ACOUSTIC VIBRATIONAL STRESS
SPACECRAFT ORGANIZATION - STUDY STRUCTURES FOR AEROSPACE APPLICA LR-16654	TION HOLYDETAG	ASD-TDR-62-801 N63-21115 21-02
STRUCTURAL RELIABILITY OF PROPEL	AAGC-SUK-OS-210ac	VARIOUS FATIGUE THEORIES AND THEIR EFFECT ON STRUCTURAL WEIGHT
COMPUTER OUTPUT FROM CURVE FIT S	TUDIES DELLE DIBOR	RH-3650-PR (00 2011 12/2014) N63-21169 1 21-33
HIGH TEMPERATURE COMPOSITE STRUC CONFIGURATIONS - RADIATIVE THERM		REAGING OF INCOMEL-X SHEET MATERIAL AFTER SEAM WELDING A065 N63-21198 21-18
SYSTEMS FOR 2500 TO 4500-DEG F	AMYDDRING CARGODINA	TO THE RESIDENCE AND ADDRESS OF THE PARTY OF
THERNAL PERFORMANCE OF RIGID INS	N63-16058 13-3-	CONTAINERS - IMPORTANCE OF NONLINEAR BEHAVIOR IN THE SYSTEM N63-21340 21-11
CRYOGENIC TEMPERATURES	N63-16061 13-1	SINUSOIDAL SWEEP VIBRATION TEST FOR QUALIFICATION
RESPONSE OF LIGHTLY DAMPED STRUC PRESSURE FIELD	TURES TO RANDOM N63-16082 13-3	OF SPACECRAFT STRUCTURES - WAVEFORM DISTORTION AND EFFECT ON VIBRATION TESTING
SPATIAL CORRELATION IN ACOUSTIC-		NASA-TN-D-1763 N63-21888 22-33
COUPLING AND ITS EFFECT ON STRUC PREDICTION TECHNIQUES	TURAL RESPONSE N63-16083 13-3	NUCLEAR WEAPONS EFFECT ON MARDENED STRUCTURES RTD-TDR-63-3023 N63-22126 22-23
FLUCTUATIONS IN TURBULENT BOUNDA DELTA 2 AIRCRAFT - MEASUREMENT O PRESSURE AND STRUCTURAL STRAIN	RY LAYER OF FAIRE F SURFACE	AERODYMAMIC HEATING OF COMPOSITE FLAT PLATE - HEAT CONDUCTION, FOURIER ANALYSIS, AND TURBULENT BOUNDARY LAYER THEORY
RAC-CP-638	N63-16169 13-0	has the action of the control of the
PHYSICAL PROCESSES IN STARS - ST SOLAR PHYSICS, PROTON-PROTON REA TRANSFER		
ANALOG COMPUTERS FOR SOLVING MOT	ION EQUATIONS IN	ANNOTATED BIBLIOGRAPHY OF EXPANDABLE STRUCTURES IN
FLIGHT MECHANICS OF AIRCRAFT HAY RIGID STRUCTURES	ING RIGID AND NON	SPACE SB-63-36 Annual partition 2 2 M63-22729 23-34
TO THE TWO ARED ON THE REPORT AND A	N63-17770 16-2	BOSON LEVELS AND COMPOSITE MODEL OF INNER NUCLEAR
RADIATION INDUCED PLASTIC MEMORY AND USE IN SPACE ERECTABLE STRUC NASA-CR-50447	TURES	NUP-63-10 N63-22810 23-23
	STRACTARUS WINDS	MATERIAL S-RESEARCH AREAS OF IMPORTANCE TO MISSILE
RIGID PLASTIC SHELL THEORY WITH FLOW THEORY EQUATIONS	MA 1-12/19/1 (03-1	NASA-TN-D-2125 N63-23126 24-34
11700 1365 POR SASS TO 2861 PROPER	SON FOR CAMPO INTO PERCS	FABRICATION OF SPACE ERECTABLE STRUCTURES FROM
SELF SEALING SPACECRAFT STRUCTURENVIRONMENT	ES IN METEOROID	SUPERALLOYS, REFRACTORY MATERIALS, AND NONNETALLIC MATERIALS M63-29211 24-33
NASA-CR-50000	N63-18867 18-3	
FILAMENT WINDING FOR INFLATABLE ERECTABLE SPACE STATION SECTIONS	TEMPSTATURE SERSO	PERFORMANCE N63-23256 24-14
NASA-CR-50826	N63-19852 19-1	COULTIONS & BROCEDING FOR COLUMNON
MULTIMETAL PROTECTIVE COATING PR COMPOSITE STEEL, MAGNESIUM AND A	OCESS FOR LUMINUM STRUCTURE	PIBAL-672 N63-23428 24-33
RIA-63-1651	N63-19920 19-1	OF LITTLE JOE THRUST BULKHEAD
SELF-DEPLOYING SPACE STATION REQ INFLATABLE SECTIONS	UIREMENTS FOR	OF-12-111 100 000 000 000 000 0000 0000 00
ARC-R-58	N63-19953 19-3	STAUT CAVITY SHAPE AND DRAG ANALYSIS FOR VENTILATED FLOW
RELIABILITY CRITERION FOR SELECT STRUCTURAL STRENGTH FOR BUILDING	S SUBJECT TO WIND	AROUND STRUTS - APPLICATION TO STRUT-HYDROFOIL SYSTEMS DESIGN
LOADING UETI-CAN	N63-20044 19-3	1504-30-38-2
AESPONSE OF COMPLEX STRUCTURE TO AND VIBRATORY LOADING		RATIO HYDROFOIL ON SURFACE-PIERCING STRUT
DYNAMIC ENVIRONMENT AND MECHANIC VIBRATORY LOAD AND STRUCTURAL RE	AL PROBLEMS - 100	STYRENE SA POLYSTYRENE
VIBRATION	N63-20881 21-3	

SU BOO SS SAL PI SI PI RI SI PI H

SUBSI

SPIN COUPLING CONSTANT IN STYRENE OXIDE BY DOUBLE RESUMANCE JPL-TR-32-310 N63-13275 07-07	HIGH STRENGTH STEELS WITH OVER 150,000 PSI YIELD STRENGTH FOR DEEP-SUBMERGENCE HULLS DMIC-MEMO-175 N63-22819 23-18
PHYSICAL PROPERTIES OF VULCANATES BASED ON NITRILE-BUTADIENE RUBBER AND STYREME RUBBER BLENDS RIA-TR-63-1574 N63-19844 19-19	SUBMERSION CF IMMERSION TWO-DIMENSIONAL COMPRESSIBLE SUBMERGED JETS -
SUBCARRIER	FLUID AMPLIFICATION N63-13398 08-11
SOLID STATE DECOMMUTATOR FOR SUBCOMMUTATED FM SUBCARRIER TELEMETRY SYSTEMS NDRE-T-231 N63-12830 06-08	SUBMILLIMETER WAVE SUBMILLIMETER INTERFERENCE SPECTROMETER N63-12352 06-15
THE RESIDENCE OF THE PROPERTY OF THE PARTY O	LASER CRYSTALS AT SUBMILLIMETER WAVELENGTHS -
FLAPPED HYDROFOIL OSCILLATION IN WAVES - SUBCAVITATION FLOW	OPTICAL PROPERTIES N63-13754 08-25
GD/C-63-032 N63-18110 16-11 SUBCOOLING	PRODUCTION OF MILLIMETER & SUBMILLIMETER MAYES BY INJECTION OF ELECTRON BEAMS INTO MAGNETIC FIELDS AFCRL-62-718 N63-14217 09-25
CF CRYOGENICS TWO-PHASE HEAT TRANSFER INSTABILITY FOR SUBCOOLED	DETECTION TECHNIQUES FOR ELECTROMAGNETIC RADIATION
WATER FLOW AT ZERO GRAVITY ARS PAPER-2548-62 N63-10268 01-06	AT SUBMILLIMETER WAVELENGTHS RADC-TDR-63-170 N63-18191 16-08
NUCLEATE BOILING CHARACTERISTICS AND CRITICAL HEAT	SUBSONIC AIRCRAFT
FLUX OCCURRENCE IN SUBCODLED AXIAL FLOW OF WATER COOLED REACTOR SYSTEMS	LIQUID HYDROGEN AS JET FUEL FOR HIGH-ALTITUDE
ANL-6675 N63-16483 14-13	NACA-RM-E55C28A N63-12541 06-26
SUBGRAVITY SUBGRAVITY EFFECTS AND SIMULATION METHODS IN	SUBSONIC AERODYNAMICS OF SEVERAL BLUNT, LIFTING, ATMOSPHERIC-ENTRY SHAPES
LABORATORY SITUATIONS AND IN FLIGHT N63-18948 18-16	NASA-MEHO-12-24-58A N63-13889 09-02
PERSONAL EXPERIENCES DURING WEIGHTLESSNESS IN JET	SUBSONIC NUCLEAR POWERED LOGISTIC AIRPLANE WITH HELIUM-COOLED REACTOR
AIRCRAFT AND ON SUBGRAVITY TOWER	NASA-TH-X-28 N63-20524 20-34
	SUBSONIC FLOW
SUBLINATION CF ABLATION RHENIUM-III CHLORIDE VAPOR PRESSURE AND STANDARD	INTEGRAL EQUATION RELATING GENERAL TIME-DEPENDENT LIFT & DOWNMASH DISTRIBUTIONS OF FINITE WINGS IN SUBSONIC FLOW
HEAT AND ENTROPY OF SUBLIMATION - TRANSITION METAL HALIDES	NASA-TN-0-1521 N63-11614 04-03
METAL HALTDES AROD-2757-1 N63-13435 08-07	BIBLIOGRAPHY - MATHEMATICS, SUBSONIC AND TRANSONIC GAS DYNAMICS
ACTIVATION ENERGY FOR SUBLIMATION OF GALLIUM	AROD-247-54 N63-11737 04-20
UCRL-10702 N63-16504 14-23 CHEMICAL REGENERATION OF HOT METAL SURFACES -	SUBSONIC AERODYNAMIC CHARACTERISTICS OF DELTA- WING REENTRY VEHICLE WITH FOLDING WINGTIP PANELS NASA-TM-X-288 NG-12918 OT-02
SUBLIMATION OF THERMIONIC CONVERTERS N63-18101 16-07	BLAST LOADING ON AIRFOIL IN HIGH SUBSONIC AIRFLOW - DIFFRACTION
EFFECT OF RADIANT HEAT COMPONENT ON HEAT TRANSFER IN VACUUM SUBLIMATION	NASA-TN-D-1603 N63-13185 07-09
NASA-TT-F-178 N63-19865 19-13	FLUTTER OF OSCILLATING WINGS IN SUBSONIC FLOW ARC-REM-3302 N63-13786 09-20
SUBMARINE SA NUCLEAR SUBMARINE	WIND TUNNEL TESTS OF BLUNT REENTRY VEHICLE WITH
FACTORS DETERMINING APPLICABILITY OF HIGH STRENGTH QUENCHED AND TEMPERED STEELS TO SUBMARINE HULL	RETRACTABLE WINGS NASA-TM-X-398 N63-13904 09-32
NRL-5892 N63-13492 08-34	GAS DYNAMICS SIMILITUDE LAWS FOR SUBSONIC, SUPER- SONIC, AND HYPERSONIC FLOWS ON BASIS OF INTEGRAL
SUBMERGED BODY WAVE RESISTANCE AND HOMENT VALUES FOR SUBMERGED	THEOREMS FOR FRICTIONLESS GASES DVL-240 N63-15193 11-1
RANKINE SOLID UNDER INTERFACIAL WAVE CONDITIONS N63-11645 04-20	COMPARISON OF THEORETICAL AND EXPERIMENTAL STAGNATION POINT HEAT TRANSFER IN HIGH-
INERTIA TERMS FOR SMALL MOTIONS OF SUBMERGED FLEXIBLE RECTANGULAR CYLINDER CU-1-62-ONR-266/36/-CE N63-12306 05-11	TEMPERATURE SUBSONIC STREAM N63-16225 13-1 SUBSONIC, TURBULENT MIXING OF TWO COAXIAL JETS
LINEARIZED THEORY FOR ROTATIONAL, SUPERCAVITATING FLOW - APPLICATION TO PREDICTING FORCES ON SLENDER HYDROFOILS AND MEDGES M63-12434 06-11	UNDER CONSTANT PRESSURE - DESIGN OF CONSTANT PRESSURE MIXING TUBES - NOMENTUM TRANSPORT THEORY GD/C-62-354A N63-16682 14-1
WAVE RESISTANCE REDUCTION OF SUBMERGED BODY	SUBSONIC FLOW INTERFERENCE IN SLOTTED WIND TUNNEL ARL/A-123 N63-16828 14-0
EFFECT OF AXIAL POSITION OF PROPELLER ON	ENERGY ADDITION TO SUBSONIC AND SUPERSONIC GAS FLOWS BY HIGH FREQUENCY, SHORT DURATION ELECTRIC
PROPULSION CHARACTERISTICS OF SUBMERGED BODY OF REVOLUTION	DISCHARGES ARL-63-54 N63-17395 15-2
OTMB-1456 N63-15923 13-27 INTERFERENCE EFFECTS OF SUBMERGED FINITE ASPECT RATIO MYDROFOIL ON SURFACE-PIERCING STRUT N63-15941 19-04	PRESSURE DISTRIBUTION CALCULATIONS FOR SYMMETRICA ROTATING BODIES WITH AXISYMMETRIC SUPERSONIC AND SUBSONIC FLOW USING APPROXIMATION COMPUTATION DVI-278 N63-17616 16-0
M03-19441 19-04	DE MOSPIERS DESCRIPTION OF MALE PROTECTIVE

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12

SUBSURFACE HEAT OF EARTH FOR THOUSTRIAL PURPOSES

SUBSONIC, SUPERSONIC, AND HYP	ERSONIC FLOWS BY	HYPERSONIC-BOOST GLIDE AIRPLANE	HODEL WITH
METHOD OF HYDRAULIC ANALOGY AGARD-399	N63-17764 16-11	ARROWHEAD WING NASA-TM-X-193	N63-12964 07-02
INVERSE METHOD FOR DETERMININ SUBSOMIC FLOW REGION ABOUT NO BODIES AT SUPERSONIC FREE STR SSD-TOR-63-119	NAXISYMMETRIC BLUNT	SUBSONIC-DIFFUSER DATA - EXIT FI COMTROL, AND INLET VELOCITY NACA-RM-LS6F05	N63-13862 09-02
JET COMPRESSOR FLOW PATTERNS. SUPERSONIC	- SUBSONIC TO	STATIC STABILITY AND CONTROL CHI MANNED LENTICULAR REENTRY CONFIG SUBSONIC SPEEDS	GURATION AT LOW
PR-9 variation	N63-18201 16-11	HASA-TH-X-431	N63-13908 09-32
SOLUTION OF BOUNDARY VALUE PR EQUATION FOR UNSTEADY SUBSONI VIBRATING STAGGERED CASCADE DVL-246	C FLOW THROUGH	AERODYNAMIC CHARACTERISTICS OF CONFIGURATIONS WITH 75 DEG SWEEL THICKNESS DISTRIBUTIONS AT SUBSUMASA-TH-X-581	PBACK AND VARYING
SUBSONIC AIR-AIR EJECTORS AND AUGMENTORS		STABILITY AND CONTROL OF FLAT SI FUSELAGE COMBINATION AT SUBSONIO WING LEADING EDGE SHEEPBACK	
PRESSURE CHARACTERISTICS IN S SUPERSONIC FLOW - STATIC AND PROBES		NASA-HENO-3-5-59A	186 F - 120 86 - 186 29
RADIAL COMPRESSIBLE FLOW BETW SUBSONIC SPEEDS	19 TOLERIE MORRAD	INBOARD TRAILING-EDGE CAMBER OF SUBSONIC SPEED NASA-TN-D-1809	MODEL AT HIGH
THE TENES TO BE THE PROPERTY AND POST	(III F	CINES FARRESAN	
TURBULENT RADIAL FLOW BETWEEN HAVING BOTH SUPERSONIC AND SU		ROLLING STABILITY DERIVATIVES OF GLIDERS AT SUBSONIC SPEEDS MASA-TM-X-268	SHEELEN STATISTICS
MUSONIC FLUTTER SUBSONIC AND SUPERSONIC FLUTT SWEPT AND UNSWEPT WINGS TO EV	ER CALCULATIONS ON ALUATE EFFECTS OF	MERCURY CAPSULE AT SUBSONIC SPE DROGUE PARACHUTE - DYNAMIC MODEI NASA-TM-X-459	L TESTS
VARIATIONS IN AERODYNAMIC PAR NASA-TH-X-182	METERS AND DENSITY 07-03	TURBONACHINES - EFFECT OF BLADE	PROFILE THICKNESS
PLUTTER INVESTIGATION OF VERY FLAT-PLATE SURFACES AT SUBSON		ON LOSS FACTORS FROM COMPRESSOR SUBSONIC SPEEDS - MACH AND REYN	DLDS NUMBER EFFECTS
NASA-TH-X-53	N63-12952 07-33	BASE FLOW ON BLUNT TRATLING-FOG	F WINGS AT SURSONIC
MISONIC SPEED		AND SUPERSONIC SPEEDS TATUR TO ARCHAGE 3323	N63-22214 23-02
CF HYPERSONIC SPEED LONGITUDINAL AERODYNAMIC CHAR SUBSONIC SPEEDS OF A HIGHLY S NOSE DEFLECTION CONTROL		PRESSURE MEASUREMENT IN TRANSIT MOLECULE FLOWS AT SUBSONIC SPEEL PROBES	ION AND FREE
MITTER ENGINEERS STANDARD CONTRACTOR	N63-10199 01-03	UTLA-TH-67 WETELTHON DETEL TO-NI-ALTU	N63-22671 23-11
SUBSONIC SPECTRUM ANALYZER - FREQUENCY COMPONENTS PIBMRI-1013-62	VISUAL DISPLAY OF LOW	SUBSTRATE ACTIVATOR REFRACTORY SUBSTRATE (AFCRL-62-513	of toward would Australia (1974)
INVESTIGATION OF HIGH SUBSONI ROTOR BLADE SUCTION-SURFACE D NACA-RM-E56118		DIELECTRIC CONSTANT OF WATER - I INTERACTION IER SER. 60, ISSUE 476	ENZYME SUBSTRATE M63-14823 11-16
WIND TUNNEL INVESTIGATION AT SPEED OF STATIC AERODYNAMIC A CHARACTERISTICS OF CAPSULE-BO	NO CONTROL	EFFECT ON PARTICLE-SUBSTRATE BO SPRAYED MATERIAL NASA-TH-D-1705	NOING OF PLASMA- N63-20888 21-24
NASA-TH-X-317	W43 13550 04 03	SUBSTRUCTURE	ARRI-TDR-62-112
NUMERICAL LIFTING-SURFACE MET DIRECT GUST FORCES AND MOMENT SUBSONIC SPEEDS		ELECTRON HICROSCOPY, X-RAY DIFF MECHANICAL TESTING TO DETERMINE MECHANICAL PROPERTIES OF REFRAC	SUBSTRUCTURE AND
NASA-TN-D-1501	N63-12927 07-03	ASO-TR-61-181, PT. 111	N63-19656 19-18
PRESSURE DISTRIBUTIONS OVER F PROJECT FIRE SPACE-VEHICLE CO SUBSONIC SPEED	NFIGURATION AT	SUBSTRUCTURE OF PLASTICALLY DEF	W03-13ATG 14-52
NASA-TN-0-1612	N63-12950 07-02	SUBSURFACE	AND STREET, AND ST
STATIC PRESSURE & STAGNATION DATA FOR DEFINING POSITION ER	RORS OF AIRSPEED-	EARTH TRAJECTORY MODEL FOR SUBS AND THRUSTED VEHICLES AFSMC-TOR-62-106	
NASA-TN-D-1724	N63-12951 07-15	DEEP RESISTIVITY SURVEY IN NEBR	ASKA - SUBSURFACE
EFFECT OF GROSS LOAD AND BOW		AFCRL-62-959	N63-12828 06-12
HYDRODYNAMIC CHARACTERISTICS LAYING SEAPLANE	7.110.700 200.000	CONSTANT GEOMAGNETIC FIELD - AP	PLICATION TO
NASA-TH-X-71 by Exchange to the life	TOTAL SECTION AND SECURITION ASSECURATION AND SECURITION AND SECURITICAL AND SECURITION AND SECU	STUDIES OF EARTH & SUBSURFACE	H63-21936 22-12
PITCH-UP EVALUATION AT HIGH S POSSIBLE LIMITATIONS DUE TO W VARIATIONS	ING-ASPECT-RATIO	RELATIONSHIP OF EARTH CURRENTS ELECTROMAGNETIC PROCESSES - GEO	MAGNETISM
NASA-TM-X-26	N63-12976 07-02	THE CONSERVED AND COMMENT AS	M63-21939 22-12

SUBSONIC FLIGHT CHARACTERISTICS OF FLAT-TOP

81

AS

SU

JPRS-21670	N63-23695	24-12	ORNL-3099	N63-19077	18-11
SUBSYSTEN FORTRAN PROGRAMMING - AUXILIARY WAPD-TM-365	SUBROUTINES N63-15373	12-20	COMPARISON OF HALL EFFECT, RESIS MAGNETORESISTANCE OF URANIUM MON OTHER FERROMAGNETIC MATERIALS	OSULFIDE WIT	H
SUBROUTINE FOR GRAPHING BY COMPU	TER - LINEAR	RAND	ANL-6731	N63-21706	22-19
LOGARITHMIC - CALCOMP PLOTTER ORNL-3447	N63-17538	16-20	CF AIR PURIFICATION	ori-tantor-p	
TIROS III SATELLITE DATA REDUCTI PROGRAM WITH SUBROUTINE NASA-TM-X-50729	DN COMPUTER	24-20	AIR PURIFICATION AND CONTROL IN MARINES - SULFATE CYCLE, SODIUM ANALYZER, ALGAL GAS EXCHANGER, L	CHLORATE CAN	IDLE,
	CAL STANMARDS	198	SANDAR NEW WAY AND THE SAND WAY THE CARE		11-16
APACHE SUBROUTINE FOR AUTOMATING VARIABLE DELAY FUNCTIONS IN ANAL EUR-347.F	06 PROBLEMS N63-23192	24-20	AIR PURIFICATION AND CONTROL IN SUBMARINES - LABORATORY-SCALE OP CYCLE, STUDY ON ELECTRODE DIAPHR	ERATION OF S	ULFATE 11-14
SUBTROPICS SUB TROPIC			S-17 TORRE THE GRA DISTANCE SE		**-11
TYPICAL TROPIC, SUB-TROPIC, AND ATMOSPHERES AFCRL-62-899	N63-14181	09-21	AIR PURIFICATION AND CONTROL IN SUBMARINES - MICROPOROUS RUBBER SULFATE CYCLE ELECTROLYTIC CELL	DIAPHRAGH FO)A
SUBVISUAL RED				N63-14929	11-1
ASSOCIATION BETWEEN SUBVISUAL REHORIZONTAL COMPONENT OF STORM-TI FIELD - MAGNETIC STORM AND AUROR.	ME DISTURBAN	NCE	CARBON DIOXIDE REMOVAL AND OXYGE SULFATE CYCLE - ELECTROCHEMISTRY NRL-5714	N GENERATION	49.00
	N63-15943	13-12	THE RESERVE AND ADDRESS OF THE PERSON OF THE		13-0
SUCTION			SULFATION CF CHEMICAL REACTION		1.9
COMMON BOUNDARY LAYER SUCTION FOR FAST FLIGHT		114	PARTIALLY FLUORINATED ALIPHATIC REDUCTIVE DESULFURIZATION OF SUB	COMPOUNDS BY	0.000
FH-158	N63-10014	01-11	THIOPHENE - ALCOHOL, KETONE	N63-13328	08-0
APPROXIMATION METHOD FOR COMPUTAL COMPRESSIBLE BOUNDARY LAYER UNDER			SULFIDE		
DISTRIBUTED SUCTION WGL PAPER-17	N63-10015	01-11	SA CADMIUM SULFIDE WEAR AND CORROSION DUE TO ADDITE	ON OF MOLYBO	
MEASUREMENTS OF BOUNDARY LAYER SE	ICTION		DISULFIDE TO GREASES RIA-62-2752	N63-10787	02-1
HENSONEHENTS OF BOOMBANT EXTEN S	N63-14526	10-11			
VISCOUS FLOW PAST ROTATING TRANS		WITH	INFRARED STELLAR SPECTROMETER WI DETECTOR AND RESOLUTION OF 3A		
ARBITRARY VELOCITY SUCTION AND SI SC-4777/RR/	N63-17704	16-11		N63-14011	09-1
CF IONOSPHERIC DISTURBANCE /SID.		157	THERMODYNAMIC STUDY OF TIN AND L MASS SPECTROMETER - VAPORIZATION COMPOUNDS AT HIGH TEMPERATURES		
EXPLORER XII ION-ELECTRON DETECT: STORM SUDDEN COMMENCEMENT ON SEP	T 30 1961 -	0.1 TO	WADD-TR-60-782, PT. VII	N63-14879	11-0
5 MEV PROTONS & 20 KEV ELECTRONS NASA-TH-D-1700	AT 12 EARTH N63-14293	10-28	ELECTROCHEMICAL OXIDATION AND DI		7790
ANALYSIS AND HYDROMAGNETIC INTER	PRETATION OF		RAE-TRANS-1030	N63-15555	12-
SUDDEN COMMENCEMENTS OF GEOMAGNET UAG-R135	N63-18681	17-12	THERMOELECTRIC MATERIALS - RESIS COEFFICIENT OF COPPER, NICKEL, & CUPROUS TELLURIDE & LEAD TELLURI	BISMUTH SUL DE MIXTURES	LFIDES
SA SPACE SUIT			SRI-21	N63-16835	14-
PHYSIOLOGICAL PROTECTION OF THE (ALTITUDE PRESSURE SUIT AMRL-TDR-62-112	CSU-4/P HIGH N63-10678	02-16	THERMOELECTRIC MATERIALS - RESIS COEFFICIENT OF MOLTEN CUPROUS SU SULFIDE-FERROUS SULFIDE COMPOSIT	LFIDE AND CL	
may marrage and the same and the same	THE PARTY OF THE P		SRI-22	N63-16836	14-
FOG-RESISTANT MATERIALS FOR HIGH VISORS FOR PRESSURIZED SUIT AMRL-TOR-62-141	ALTITUDE HE N63-12739	06-16	LOW-TEMPERATURE HEAT CAPACITY AN 298.15-DEG K OF RED MERCURIC SUL		1
	AT ANY STATE OF THE	10.0	BM-RI-6001	N63-17885	16-
SA HYDROXYLAMINE SULFATE SA NICKEL SULFATE			RADIOTRACER STUDIES TO DETERMINE DISTRIBUTION OF CERIUM ADDITIONS		ND
SA TRIGLYCINE SULFATE HEAT CAPACITY AND ENTHALPY OF BEI	RYLLTUM SULF	FATE TO	BH-RI-6256	N63-18719	
900-DEG F BM-RI-6240	N63-16488	14-23	OXIDATION OF HOLYBDENUH DISULFIC		
CHEMICAL REACTIONS - HYDROGEN AZ	IDE - HYDRAZ	THE	OURING FLOTATION - FACTORS AFFEC IN DISTILLED WATER	34544-92041	UTION 18-
SULFATE PA-TH-1186	N63-16521	14-07	ME-1 MANS-1036	N63-19141	19733
HIGH TEMPERATURE HEAT CONTENT AND ZIRCONIUM FLUORIDE AND ZIRCONIUM		102	RELAXATION TIME OF POLYETHYLENE POLYETHYLENE TETRASULFIDE ONR-TR-RLT-65	N63-21024	ND 21-
BH-R1-5964	N63-17890	16-07	- Transactive State of a result		SVE
MEASUREMENT OF GIANT SULFATE COMM AT LOW ALTITUDES		ICLE1 17-21	DISTRIBUTION AND CHEMICAL FORMS SULFIDES GIVEN ORALLY IN PROTECT SAM-TOR-62-150	IVE DOSES TO	
IN-PILE RADIATION CORROSION EXPERZIRCONIUM, TITANIUM, AND STEEL A			SULFUR AUTORADIOGRAPHY OF CARBON AND SU	CONDUMENTON	

18-18 H 22-19

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11-14 BY 13-07

10-90

02-17 DE 09-15 117H

2-07 CK DES, 4-18 CK DUS

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7-18 IN

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CE -16

BH-RI-6122 N63-10969 02-18	CLUCELL PAGE IN ETHERCOMY & HUNTRY PROSECT ASSESSMENT
The state of the s	UCRL-10886
AUTOMATIC APPARATUS FOR ESTIMATING COMMON ELEMENTS IN ORGANIC MATTER TIL/T-5107 N63-13318 07-07	MRC-366
DRY COMBUSTION PROCEDURE FOR SULFUR DETERMINATION IN BERYLLIUM OXIDE AND BERYLLIUM OXIDE FUEL ELEMENTS	BOOLEAN ALGEBRA - PROBABILITY THEORY AND SUN FUNCTIONS N63-19372 18-20
UCRL-7204 N63-14598 10-07	IRRATIONALITY OF THE SUM OF RECIPROCALS OF FERNAT NUMBERS AND OTHER FUNCTIONS N63-23055, 24-20
EFFECT OF SULFUR IN JET FUEL ON TURBINE INLET GUIDE VANES - 12-HOUR METAL LOSS TESTS USING FUELS WITH AND MITHOUT CONTAMINATION AND SUPERALLOYS N63-19035 18-26	SUM SA SOLAR HEADINGS PLASMA CLOUD IN MOTION AS RADIO EMITTING SATELLITE OF THE SUY N63-11528 03-05
BIOGEOCHEMISTRY OF SULFUR ISOTOPES - SULFUR IN METEORITES, MARINE SEDIMENT, SEA AND LAKE MATERS - SULFUR FRACTIONATION BY ANAERDBIC BACTERIA N63-20350 20-16	RADIO EMISSION OF SUN CN A 1.8-MM WAVELENGTH N63-11529 03-05
SORPTION OF SULFUR, PHOSPHORUS, AND MERCURY BY	COLLAPSE PHASE OF EARLY SOLAR EVOLUTION NASA-TN-D-1682 N63-12594 06-29
BULFUR COMPOUND SULFUR HEXAFLUORIDE IN HIGH-POWER MICROWAVE	SOLAR ORIGIN OF ATMOSPHERIC AND METEORIC XENON DETERMINED BY ISOTOPIC ANALYSIS NASA-TH-D-1685 N63-12595 06-29
SYSTEMS, DIELECTRICS, MAVEGUIDES RADC-TDR-62-443 N63-10902 02-08 LOW FREQUENCY BREAKDOWN OF DIELECTRIC GASES -	NASA-SPONSORED SPACE RESEARCH - GEODESY, EARTH-SUM RELATIONSHIPS, MOON AND PLANETS, AND ASTRONOMY - SATELLITE AND SPACE PROBE DATA REVIEW
SULFUR HEXAFLUORIDE RADC-TDR-62-585 N63-12787 06-19	N63-12041 D6-29 NEUTRONS IN SPACE - FLUX GENERATION AND SOURCES
BREAKDOWN VOLTAGES OF FREON GASES AND SULFUR HEXAFLUORIDE AT LOW PRESSURE	NASA-TN-D-1696 N63-13103 07-28
NASA-TN-0-1761 N63-16990 15-11 RADIATION PROTECTION - RADIATION EFFECT ON	MISSILE ATTITUDE DETERMINATION USING MAGNETOMETERS MITH SUM AND EARTH SENSORS RG-TR-02-3 N63-13230 07-15
THIOPHOSPHATE OXIDIZING ENZYME SYSTEM IN RATS N63-17037 15-16	ALIGNMENT OF SUM, EARTH, AND SATELLITE WITH 18M 7090 COMPUTER - ORBIT CALCULATIONS
PLANETARY AERONOMY - ULTRAVIOLET ABSORPTION OF SULFUR DIOXIDE - DISSOCIATION ENERGIES OF SULFUR DIOXIDE AND SULFUR OXIDE GCA-TR-63-13-N N63-17320 15-07	TDR-930/2352/TR-1 N63-15920 13-29 RARE GASES IN SUN, ATMOSPHERE, AND METEORITES, N63-16224 13-29
SYNTHESIS, MICROWAVE AND MASS SPECTRA, AND MOLECULAR STRUCTURE OF SULFUR MONOFLUDRIDE	RADIOASTRONOMY - RADIO OBSERVATION OF THE SUN AFCRL-63-498
ROTATIONAL STRUCTURE OF VIBRONIC BANDS IN ULTRAVIOLET ABSORPTION SPECTRUM OF SULFUR DIOXIDE VAPOR IN 3400-3900A REGION N63-17702 16-23	ASTRONONICAL ALMANAC, MAY-AUG 1963 - DATA FOR SUN, MOON, VENUS, SATURN, AND JUPITER N63-17010 15-29
BREAKDOWN UNDER HIGH POWER PULSING MICROWAVE RADIATION - DISCHARGE GROWTH IN AIR AND SULFUR HEXAFLUDRIDE	EQUATIONS FOR COMPUTING POSITIVE CHARGE OF SUN - MOTION AND HEAT EQUATIONS N63-17927 16-05
RADC-TDR-63-201 N63-18151 16-23 FLUOROCARBON NITROGEN-FLUORIDE COMPOUNDS FROM	COMPRESSION OF EARTH MAGNETIC FIELD DUE TO IMPACT OF NEUTRAL PARTICLES FROM THE SUN UPON OUTER MAGNETOSPHERE M63-18185 16-12
BROMINE CYANIDE AND SODIUM CYANIDE REACTIONS WITH SULFUR TETRAFLUORIDE ARD0-007-16 N63-19977 19-07	SOLAR ORIGIN OF ATMOSPHERIC XENON - MEUTRON IRRADIATION OF SOLAR XENON N63-10685 17-29
ELECTRON PARAMAGNETIC RESONANCE OF IMPURITY IONS IN CRYSTAL LATTICES - THEORY, EXPERIMENT, SINGLE CRYSTAL PREPARATION, AND SULFUR MONOXIDE STUDY ARL-63-126 M63-22497 23-25	PHOTOMETERS IN TANDEM BALLOON FLIGHTS TO MEASURE SOLAR AND MEAR-SUN LUMINOSITY AS FUNCTIONS OF ALTITUDE - GRAPHS AND TABLES AFCRL-63-617 N63-18726 17-12
SEPARATION & IDENTIFICATION OF SULFUR-FLUORINE AND NITROGEN-FLUORINE COMPOUNDS - GAS CHROMATOGRAPH TO	INTERPRETATION OF X-RAY PHOTOGRAPHS OF SUN N63-19702 19-05
MASS SPECTROMETER CARDE-TW-1524 HEADLE ACED	GRAVITY GRADIENT TORQUES ON A SUN-GRIENTED SPACE
ULFURIC ACID BASICITY OF H-HITROSAMINES AND AQUEOUS SULFURIC ACID SOLUTIONS ARDO-2276-3 N69-12711 06-07	PREDICTION OF HIGH LUMINOSITY AND FULL CONVECTION
ADSORPTION OF TRACE ELEMENTS FROM SULFURIC ACID	*** **********************************
BY BASIC ANION EXCHANGE RESINS N69-17959 16-07	PRISM ATTACHMENT TO THEODOLITE TELESCOPE FOR AIRING AT CENTER OF SOLAN DISK PTD-TT-62-1090/162 N63-23725 24-05
INHIBITORY EFFECTS OF SULFURIC ACID CONCENTRATIONS ON CELL DIVISION IN CHLORELLA N63-20219 20-16	SUNDERLAND Y FLYING BOAT
CALCULATION OF PARTIAL VAPOR PRESSURE OF SULFURIC ACID DURING VAPOR PHASE TRANSITION	SUNDERLAND-Y FLYING BOAT M65-13042 09-20

SUNFLOWER CF SOLAR POWER SYSTEM SUNFLOWER THERMODYNAMIC POWER SYSTEM ARS PAPER-2502-62 N63-10254	01-06	SUNSPOTS - CURRENT SHEATH AND SNOWPLOW MODELS FOR SUNSPOT EXPANSION NASA-TN-D-1906 N63-23708 24-29
SUNFLOWER POWER CONVERSION - SOLAR COLLECTO POWER CONVERSION, SPEED CONTROL, TURBO-ALTE CONDENSER-SUBCOOLER, LITHIUM HYDRIDE CONTAI	R, RNATOR,	SUPERALLDY IDENTIFICATION OF MICROCONSTITUENTS IN SUPERALLDYS OMIC-MEMO-160 N63-10282 01-18
ER-4925 N63-21226 SUNFLOWER CONVERSION SYSTEM USING SOLAR POW RANKINE SYSTEM NASA-CR-51779 N63-22577	21-06 ERED	THERMAL RADIATIVE PROPERTIES OF SELECTED MATERIALS INCLUDING TITANIUM ALLOYS, STAINLESS STEELS, SUPERALLOYS, REFRACTORY METALS, AND COATINGS DMIC-177, VOL. 1 04-13
SUNLIGHT DIFFERENCE BETWEEN MISSILE LAUNCH TIMES AND	54 501,4	SUPERALLOYS FOR SUPERSONIC TRANSPORTS - INFLUENCE OF NOTCH ACUITY ON NOTCH STRENGTH OF RENE 41, WASPACY, AND D979 ALLOY NASA-CR-50178 N63-16562 14-32
SENSITIVITY TO SUNLIGHT AMC-RG-TR-63-12 N63-18029	16-04	- PRITAY 325 FREE RES TERMENTS THE THE STOTE OF THE STOTE
EFFECTS OF SUNLIGHT ON ORGANIC COMPONENTS OF CLOSED ECOLOGICAL SYSTEMS - PRODUCTION OF TEND PRODUCTS	OXIC	EFFECT OF SULFUR IN JET FUEL ON TURBINE INLET GUIDE VAMES - 12-HOUR METAL LOSS TESTS USING FUELS WITH AND WITHOUT CONTAMINATION AND SUPERALLOYS N63-19035 18-26
SAM-TDR-63-65 N63-23514	24-16	LINER FOR EXTRUSION BILLET CONTAINERS - ZIRCONIUM
SUNSET EFFECT OF REFRACTION ON SETTING SUN AS SEEN SPACE IN THEORY AND OBSERVATION - MA-6 AND	FROM	AND ALUMINUM OXIDES AND SUPERALLDY ASD-TDR-7-945/IV/ ASD-TDR-7-945/IV/
MISSIONS NASA-TN-D-1721 N63-16292	13-12	ENVIRONMENTAL EXPOSURE EFFECT ON COATED REFRACTORY ALLOYS AND UNCOATED SUPERALLOYS WITH FOIL GAUGE EMPHASIS COALS-2-03-7
SUNSPOT CF SOLAR FLARE		GD/A-63-0817 N63-21859 22-18
SYNOPTIC FLARE DATA, 1937 TO 1960 AFCRL-62-827 N63-10490	01-28	EVALUATION OF PICKLING SOLUTIONS FOR SUPERALLOY IN VIRGO SALT BATH
CERENKOV SCINTILLATION COUNTER MEASUREMENTS	ne	A067 N63-21875 22-18
BERYLLIUM, BORON, CARBON, NITROGEN, OXYGEN SUNSPOT COSMIC RADIATION N63-12179	IN	WELDING AND TESTING PROGRAM OF SUPERALLOYS & STAINLESS STEELS FOR DESIGN & CONSTRUCTION OF HIGH TEMPERATURE GAS LODP
VALUE OF VISUAL OBSERVATIONS OF FINE STRUCT EVOLUTION OF SUNSPOTS BY MEANS OF FREE-HAND		HW-78574 N63-22424 23-18
DRAWINGS AFCRL-62-890 N63-14178	0.101	FABRICATION OF SPACE ERECTABLE STRUCTURES FROM SUPERALLOYS, REFRACTORY MATERIALS, AND NONMETALLIC MATERIALS
CLASSIFICATION OF SOLAR PROMINENCES FOR SUN CYCLE NO. 19 AFCRL-63-200 N63-14317	SPOT 10-05	COATED AND BARE REFRACTORY & SUPERALLOY THIN SHEET MECHANICAL AND THERMOPHYSICAL PROPERTIES
MAPS OF THE SOLAR CHROMOSPHERE WITH CATALOG FLARES AND SUNSPOTS	S OF 10-12	SID-62-1219-3 N63-23790 24-18 SUPERCAVITATION
POSITION, AREA, AND BEHAVIOR CLASSIFICATION SOLAR PROMINENCES FOR SUNSPOT CYCLE NO. 19 AFCAL-63-205 N63-14551	OF 10-28	LINEARIZED THEORY FOR ROTATIONAL, SUPERCAVITATING FLOW - APPLICATION TO PREDICTING FORCES ON SLENDER HYDROFOILS AND WEDGES
DISTRIBUTION OF SUNSPOT ACTIVITY IN LONGITUI SIX SOLAR CYCLES N63-15316	DITTON.	FORCES ON SUPERCAVITATING HYDROFOILS WITH INTERNAL VENTILATION 07HB-1676 N63-13376 08-11
SOLAR SPOTS AND FLARES AS VISIBLE SIGNAL FOR		LOW DRAG SUPERCAVITATING HYDROFOIL SECTIONS - VENTILATED LIFTING SURFACES N63-16065 13-11
N63-15748 CLASSIFICATION OF SOLAR PROMIMENCES FOR SUN: CYCLE NUMBER 19 OBSERVED DURING 1958	SHALL	DRAG COEFFICIENTS OF BODIES OF REVOLUTION WITH VARIOUS HEAD FORMS IN SUPERCAVITATING FLOWS AT VARIOUS ANGLES OF YAW N63-18102 16-02
AFCRL-63-458 N63-10278 CERENKOV-SCINTILLATION COUNTER MEASUREMENTS	OF	SUPERCAVITATING HYDROFOIL FLUTTER PHENOMENA GDC-63-132A N63-19672 19-33
RADIATION FROM SUNSPOT MINIMUM TO SUNSPOT MINIMUM TO SUNSPOT MINIMUM TO SUNSPOT MASA-TN-D-1754	HUHIKA	IMPROVED FIRST-ORDER SUPERCAVITATING HYDROFOIL THEORY
SUNSPOTS AND FLARES - RELATIVE POSITIONS N63-20045	19-28	R-971 N63-21281 21-02 NUMERICAL PROCEDURE FOR GENERATION OF LOW CAVITY
MAPS OF SOLAR CHROMOSPHERE AND CATALOGS OF I AND SUMSPOTS - SPECTROHELIOGRAPH ANALYSIS No3-20070	FLARES 20-28	DRAG, SUPERCAVITATING AXISYMMETRIC BODIES WITH INFINITE TRAILING CAVITIES MR-062-265
FORECASTING SUNSPOT CYCLES - SOLAR PHYSICS RAE-TM-SPACE-16 N63-20504	20-28	SUPERCONDUCTIVITY CF ELECTRIC CONDUCTIVITY CF ELECTRIC PROPERTY
SOLAR PROMINENCES FOR SUNSPOT CYCLE NO. 19 - CLASSIFICATION OF SOLAR ACTIVITY AFCRL-63-686 N63-20660	- 1959 20-28	PLASMA PHYSICS - DCX-1 AND DCX-2 PLASMA, VACUUM ARC, 10MS, MAGNETICS AND SUPERCONDUCTIVITY ORNL-3392 N63-13458 08-23
CONVERSION OF RAYLEIGH DATA ON AIRGLON GREEN EMISSION COVERING ENTIRE SUNSPOT CYCLE - CORRELATION WITH NIGHT SKY BRIGHTNESS CONTIN AFCRL-63-835	LINE	SUPERCONDUCTIVITY IN METALS AND ALLOYS - KAPITZA RESISTANCE MEASUREMENTS IN TIN AND INDIUM, ON TRANSITION CHANGE, AND SAPPHIRE INSULATOR ASO-TOR-62-1111 NO. 10-18

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-23

RESULTS OF SURVEY ON PROPOSED LABORATORY USES OF SUPERCONDUCTING MAGNETS M63-14368 10-23	ELECTRIC VACUUM GYROSCOPE, PLASHA PHYSICS, COMPUTER PROGRAM, HIGH MAGNETIC FIELD SUPER- CONDUCTOR, ELECTRONICS, AND DISARMAMENT RESEARCH
CONTROLLED THERMONUCLEAR FUSION FOR SPACECRAFT PROPULSION — USE OF DEUTERIUM—HELIUM 3 AS REACTOR FUEL CONTAINED BY SUPERCONDUCTING MAGNETS N63—15075. 11—27	AUDIOFREQUENCY RESISTANCE OF NONIDEAL SUPERCONDUCTORS - FLUX TRAPPING AS LOSS MECHAMISM AVCO-EVERETY RES. RETT161 N63-22201 23-25
PHYSICS SUMMARY - VAN DE GRAFF ACCELERATOR, NUCLEAR REACTIONS, MASS SPECTROSCOPY, SUPERCONDUCTIVITY, AND PARTICLE THEORY ANI-6679 N63-15185 11-23	CRITICAL CURRENT AND FIELD IN NON-IDEAL SUPERCONDUCTORS AVCO-EVERETT RES. REPT162 M63-22202 23-25
SPACE SCIENCE - SUPERCONDUCTIVITY IN BEARINGS FOR VACUUM OPERATION, ACCELEROMETERS AND CRYOGENIC EQUIPMENT - GYROSCOPES N63-15997 13-17	CURRENT-CARRYING CAPACITY OF A SECOND KIND OF SUPERCONDUCTOR M63-22263 23-09
SUPERCONDUCTING MAGNETS N63-16243 13-25	INDUCTIVE ENERGY STORAGE, SUPERCONDUCTORS, MAGNETOHYDRODYNAMICS, TRANSDUCERS, SWITCHING 6 CONTROL RESEARCH IDA/HQ-63-1412 M63-22200 23-01
DESIGN PRINCIPLES OF SUPERCONDUCTING FRICTIONLESS MAGNETIC BEARINGS N63-17827 16-17	SUPERCONDUCTING COIL ENERGY STORAGE FOR HIGH PULSED POWER APPLICATIONS N63-22285 23-06
PLASMA STABILITY, PARTICLE ACCELERATION, VACUUM SYSTEMS, AND SUPERCONDUCTIVITY RESEARCH ORNL-3472 N63-19842 19-24	MAGNETIC ENERGY STORAGE USING SUPERCONDUCTING COILS N63-22286 23-06
HIGH CURRENT LOW VOLTAGE DC TO AC CONVERSION - HALL EFFECT, SUPERCONDUCTING SWITCH, & EFFICIENCY	SUPERCONDUCTIVE INDUCTOR ENERGY STORAGE N63-22287 23-06
OF OPERATION NASA-CR-51213 N63-21367 22-09	ENERGY STORAGE IN SUPERCONDUCTING SOLEMOIDS N63-22288 23-06
SUPERCONDUCTIVE MATERIALS LIST - PROPERTIES, MAGNETIC FIELD N63-21415 22-19	CRYOGENIC ENERGY STORAGE SYSTEM TO REFRIGERATE A SUPERCONDUCTING INDUCTOR N63-22289 23-06
SUPERCONDUCTING MAGNET APPLICATION TO MAGNETOHYDRODYNAMICS - MODELS, COOLING EQUIPMENT AND GENERATOR ANALYSIS N63-21804 22-23	SPACE METALS FOR FUTURE USE - SUPERCONDUCTORS N63-23234 24-19
HIGH MAGNETIC FIELD STRENGTH SUPERCONDUCTING COILS AVCD-EVERETT RES. REPT160 No5-22846 23-09	INDUCTION ELECTRON ACCELERATOR UTILIZING SUPERCONDUCTIVE MATERIAL
UPERCONDUCTOR MEASUREMENT OF DECAY OF TRAPPED-FLUX IN SUPER- CONDUCTING RING UNDER BOMBARDMENT OF ALPHA PARTICLES FROM POLONIUM-210 LNF-62-85 N63-12574 06-23	FTD-TT-62-1787/162 N63-23380 24-23 JOINING CURRENT CONTACTS TO SUPERCONDUCTING NIRE N63-23456 24-09 SUPERCOOLING
COMPUTER SYSTEMS THEORY & PROGRAMMING, ELECTRONIC INSTRUMENTATION, SUPERCONDUCTORS & BREAKDOWN	MICROPHYSICAL MECHANISMS OF RAIN FORMATION IN WARM CLOUDS JPRS-21495 H63-23604 24-21
N63-13355 08-01 SURFACE RESISTANCE OF SUPERCONDUCTORS N63-13679 08-23	SUPERCRITICAL PRESSURE NUCLEAR POWERED SUPERCRITICAL WATER CYCLE FOR AIRCRAFT PROPULSION
INDUCTION METHOD USED TO MEASURE RESISTANCE OF HIGHLY CONDUCTIVE MATERIALS WITHOUT DIRECT ELECTRICAL CONNECTION 850-TDR-63-60 N63-14209 09-25	SUPERHEATING VISCOSITY OF SUPERHEATED STEAM UP TO 275-DEG C
PRIMARY ELECTRON SOURCES - THERMIONIC CATHODES AND	BOILING MATER MUCLEAR SUPERMEATING REACTOR TTRI-58 N63-17247 15-20
AND SUPERCONDUCTORS AFCRL-63-5 N63-14310 10-09	VELOCITY OF INTERFACE BETWEEN LIQUID AND VAPOR PHASE OF SUPERMEATED LIQUID & TEMPERATURE
TUNNELING BETWEEN SUPERCONDUCTORS WITH OXIDE FILM INSULATION 11-25	DISTRIBUTION IN LIQUID PHASE N63-20427 20-11
MEISSNER EFFECT OF SUPERCONDUCTOR AND SELF-ENERGY OF PHOTON - ELECTRIC ANALOGY IN QUANTUM THEORY NUP-63-4 N63-16691 14-24	FABRICATION OF WAVE SUPERHEATER HYPERSONIC TUNNEL CAL-AD-1345-W-7 N63-21248 21-15 SUPERHETERODYNE RECEIVER
STUDIES OF THERMIONIC CATHODES AND NONTHERMIONIC	TECHNIQUES FOR SUPERHETERODYNE RECEIVERS ABOVE ONE HUNDRED GIGACYCLES — MILLIMETER MAYE DEVICE MASA-CR-50881 M63-20199 20-08
SUPERCONDUCTORS N63-16866 14-09	SUPERMAGNET TAMING THE SUPERMAGNETS - CRYOGENIC CONDUCTORS
MICROELECTRONICS ASD - CIRCUIT REDUNDANCY & ADAPTATION, SURFACE-FIELD EFFECT TRANSISTOR, SUPERCONDUCTIVE TRAPPED FLUX MEMORY N63-17368 15-09	SUPERMOVA CF GALAXY AND ADMINISTRATION OF THE STANDARD WASHINGTON TO THE STANDARD WASHINGTON THE STAN
CRYSTALLIZATION OF THE INTERMETALLIC COMPOUND OF NIOBIUM AND TIN IN 3-TO-1 RATIO - USE IN	CF STAR ROLE OF TURBULENCE IN STAR FORMATION IN ELLIPTICAL GALAXIES N63-12747 06-29
SUPERCONDUCTORS R-170 N63-19366 18-25	PROBABLE SUPERNOVA - SUPERNOVA IN GALAXY NGC 4178 N63-17796 16-05
LIQUID THERMOELECTRIC SUPERCONDUCTORS AS DIRECT ENERGY CONVERSION MATERIALS N63-20006 19-23	STAR - HOYA OR SUPERMOVA N63-17070 16-05

SPECTROSCOPIC OBSERVATIONS OF S			DYNAMIC LONGITUDINAL STABILITY	OF DELTA WING	9.8.
ANONYHOUS GALAXY	N63-22735	23-05	SUPERSONIC AIRCRAFT NLR-TN-V.1913	N63-23344	24-03
SPECTRUM & LIGHT-CURVE OF SUPERI SUPERSONIC AIRCRAFT	N63-22739	23-05	SUPERSONIC COMBUSTION SUPERSONIC COMBUSTION AND MIXIN OXIDIZERS	G OF FUELS AN	
AERODYNAMIC DEVELOPMENT OF THIN SUPERSONIC AIRCRAFT WGL PAPER-5	WINGS FOR		ARL-62-467	N63-11029	03-26
WGL PAPER-5	N63-10004	01-03	SUPERSONIC COMBUSTION - INVISCI TURBULENT MIXING	O FLOW FIELDS	A115
SUPERSONIC RESISTANCE REDUCTION		ELAGE	PIBAL-713	N63-11164	03-26
WGL PAPER-13	N63-10011	01-02	EXPERIMENTAL RESULTS OF SUPERSO		H IN
TIME OPTIMAL TURNING MANEUVER OF	SUPERSONIC		SHOCK TUNNEL - ATR AND HYDROGEN	N63-12097	05-26
AIRCRAFT WGL PAPER-22	N63-10020	01-06	SUPERSONIC COMBUSTION OF HYDROG		001
WING AND FUSELAGE CONCEPTS FOR S DAC-31041	SUPERSONIC A	IRCRAFT 01-34	SUPERSONIC COMBUSTION - SUPERSO MIXING OF CARBON DIOXIDE AND AI	NIC TURBULENT	13-26
SELECTION HETHODS AND APPROXIMAT	TE CALCULATIO	ON OF	MIXING OF CARBON DIDXIDE AND AL	N63-19363	18-11
AIRCRAFT DESIGN PARAMETERS FTD-TT-62-451/1826364	N63-10297	01-04	SUPERSONIC FLIGHT	TENS: AND SAIR	
SUPERSONIC AIRCRAFT DESIGN COA-N-127	N63-11284	03-04	GROUND PRESSURE EFFECT & SONIC DELTA 2 AIRCRAFT IN SUPERSONIC ARC-R&M-3296		Y 15-04
NASA AERONAUTICAL RESEARCH PROGI	RAM - HELICO	PTERS.	EFFECTS OF TRANSVERSE BARYCENTE	R DISPLACEMEN	T.
SUPERSONIC TRANSPORT, STOL VEHIC AIRCRAFT & X-15 - CONGRESSIONAL	LES, MULTIM		CONICAL AFTERBODY, CURVED FRONT CAPSULE SUPERSONIC AERODYNAMIC NASA-TM-X-569	FACE ON MERC	URY
EFFECTS OF SECONDARY-AIR FLOW OF		diam's	INVERSE SOLUTION FOR INVISCID I	STALL SECTION	ONE TO
FORCE OF SUPERSONIC AIRCRAFT NACA-RH-E54628	N63-12525	06-02	FIELDS AROUND BLUNT BODIES IN H SUPERSONIC FLIGHT		SAN
LIQUID HYDROGEN AS JET FUEL FOR			SM-42588	N63-20927	21-11
AIRCRAFT			SUPERSONIC FLOW THREE-DIMENSIONAL MEASUREMENTS		DUA II
NACA-RM-E55C28A	N63-12541	06-26	WINGS OF VARIOUS PLANFORMS IN S	UPERSONIC FLO	W. Brent
NUMERICAL INTEGRATION PROCESS TO AERODYNAMIC FORCES AND USE OF AI COMPUTE FLUTTER BOUNDARIES			WGL PAPER-12 RESEARCH ON RUDDERS IN A SUPERS	N63-10010 ONIC JETSTREA	M 01-0
IAS PAPER-63-22	N63-12887	07-33	WGL PAPER-20	N63-10018	01-0
FLIGHT-DETERMINED STABILITY & CO OF SUPERSONIC AIRCRAFT WITH LOW UNSWEPT WING & T-TAIL	ASPECT RATIO	0	PRESSURE DISTRIBUTION ON FLAT P ROCKET JETS EXHAUSTING INTO FRE NASA-TN-D-1507		SONIC 01-1
NASA-MENO-2-2-59H	N63-13886	09-04	FLOW OF A SUPERSONIC IDEAL GAS	PAST A FLAT P	LATE
FAVORABLE WING-BODY INTERFERENCE AIRCRAFT - DESIGN PARAMETERS	FOR SUPERSO N63-14024	ONIC 09-34	IN PRESENCE OF VOLUME HEAT RELE FTD-TT-62-1049/1,264	ASE N63-10307	01-1
STATIC STABILITY INVESTIGATION C	OF SUPERSONIC	Small that	MODIFICATION OF BUSEMANN ELLIPS GAS AT SUPERSONIC FLOW	E FOR A REACT N63-10485	ING 01-1
NASA-MEMO-3-2-59L HANDLING QUALITIES OF SUPERSONIC	N63-14757	11-02	SHOCK WAVE PROFILES OF ELLIPSOI SUPERSONIC FLOW		IES II
HIGH SPEED CRUISING FLIGHT USING		1811	THE CAMBILLY SINGERS NOT THE PARTY.	PURPOSES TARR	HALL S
SINULATORS NASA-TN-D-1888	N63-15563	12-10	AERODYNAMIC FORCES ACTING ON A SUPERSONIC RAREFIED GAS FLOW	CANADA SERVICE	
EFFECT OF VERTICAL TAIL HODIFICA		ATIC	HE-150-203	N63-10615	02-0
STABILITY OF VTOL SUPERSONIC AIR NASA-TH-X-519	N63-17165	15-04	SECOND-ORDER SOLUTIONS FOR SUPE CRUCIFORM SURFACES	RSONIC FLOW O	VER
AERODYNAMIC AND HYDRODYNAMIC CHA			CH-1019	N63-11049	03-0
PROPOSED SUPERSONIC MULTIJET SEA VARIABLE INCIDENCE WING		when the	TURBULENT BOUNDARY LAYERS ON HI SURFACES AT HIGH MACH NUMBERS	GHLY COOLED	WIN :
NASA-TH-X-249	N63-17254	15-02	JIMPANES AT HIGH MACH HONDERS	N63-11075	03-1
COMPOSITE MATERIALS FOR SPACECRA AIRCRAFT - BIBLIOGRAPHY	NET AND SUPER		FORCE MEASUREMENTS ON A DATA CA AND FLOW FIELD OF A CARRIER VEH AEDC-TDR-62-220		8
NUCLEAR DIRECT-AIR-CYCLE SUPERSO	NIC AIRCRAFT	1687	WIND TUNNEL INVESTIGATION OF JE	T BLOWING OVE	RA
	TURE AND FUE		WINGLESS MISSILE BODY AT MACH 2 DTMB-AERO-1040	.16, 2.48, AN N63-11427	
DESIGN STUDY - EFFECT OF TEMPERA PLATE MATERIAL	THE REST OF A		THE RESERVE TO A STREET OF THE PARTY OF THE		
	N63-18645	17-04	JET EFFECTS ON ANNULAR BASE PRE	SSURE AND	
PLATE MATERIAL NACA-RM-E53C18 NONMETALLICS FOR SUPERSONIC TRAM PLASTIC AND GLASS SEALS AND SEAL	SPORT AIRCRA	AFT -	JET EFFECTS ON ANNULAR BASE PRE TEMPERATURE IN A SUPERSONIC STR NASA-TR-R-125		04-0
PLATE MATERIAL NACA-RM-E53C18 NONMETALLICS FOR SUPERSONIC TRAN	SPORT AIRCRA	AFT -	TEMPERATURE IN A SUPERSONIC STR	FLAT PANELS,	

CALCULATION OF SUPERSONIC FLOW AROUND AXISYMMETRIC BODIES WITH AXIS INCLINATIONS 6-25 N63-11833 04-11

NEASUREMENT OF PITCHING-MOMENT DERIVATIVES FOR RIGID TAPERED WINGS OF HEXAGONAL PLANFORM OSCILLATING IN SUPERSONIC FLOM ARC-RRH-3294 N63-12128 05-1

03

26

24

24

26

04

03

11

33

13

11

1

1

12

2

2

1

2

FLOW

MAGNETOMYDRODYNAMIC EFFECTS ON STAGMATION-POINT HEAT TRANSFER FROM PARTIALLY IONIZED MONEQUILIBRIUM GASES IN SUPERSONIC FLOM TP-43 N63-12145 05-24

GAS DYMAMICS, COMBUSTION PHYSICS, SHOCK MAVE PROPAGATION, EXTERNAL FRICTION, HEAT EXCHANGE, SUPERSONIC FLOW, DENSITY DISTRIBUTION NASA-TT-F-79 N63-12262 05-11

PHOTOGRAPHIC AND PRESSURE STUDIES OF INSTABILITY IN TRANSITION REGIONS OF TRANSONIC STREAM IN SUPERSONIC FLOW FIELD N63-12267 05-11

SHOCK WAVE AND BOUNDARY LAYER INTERACTION IN SUPERSONIC FLOW IN ANGULAR LEDGE REGION N63-12268 05-11

PRESSURE DISTRIBUTION AT SUPERSONIC SPEED OF SWEPTBACK WING ATRCRAFT MODEL AT COMBINED ANGLES OF ATTACK AND SIDESLIP - TABULATED DATA NASA-MEMO-10-15-58L N63-12497 06-02

PLUTTER TESTS OF SANDWICH-TYPE FLAT PANELS AT SUPERSONIC SPEEDS MASA-MEMO-10-17-58L N63-12500 06-33

APPROXIMATE SOLUTION FOR FLOW ABOUT FLAT-TOP WING BODY CONFIGURATION AT SUPERSONIC SPEEDS N63-12505 06-02

ROTATING-STALL LIMITS IN SUPERSONIC TURBOFAN ENGINE NACA-RM-E57G26A :/ N63-12514 06-27

FORCE AND PRESSURE MEASUREMENTS ON SEVERAL CANOPY-FUSELAGE CONFIGURATIONS AT LOW SUPERSONIC SPEEDS MACA-RH-L55H23

SUPERSONIC FLOW OF TWO TURBINE BLADE SECTIONS WITH TURNING ANGLE OF 160-DEGREES MACA-RH-L57721 N63-12521 06-27

FORCE STUDY OF SCALE MODEL XSM-64A NAVAHO MISSILE AND BODSTER AT SUPERSONIC SPEEDS NASA-TM-X-16 N63-12548 06-02

STATIC LONGITUDINAL STABILITY AND ROLL OF THREE-STAGE HISSILE CONFIGURATION AT SUPERSONIC

SPEEDS NASA-TH-X-124 N63-12556 06-02

LOCAL HEAT TRANSFER TO BLUNT NOSES AT HIGH SUPERSONIC SPEEDS NACA-RH-L57D25C N63-12648 06-02

STATIC AERODYNAMIC CHARACTERISTICS OF SHORT BLUNT 10-DEG SEMIVERTEX ANGLE CONE IN HELIUM AT SUPERSONIC SPEED

NASA-TN-D-1648 N63-12701 06-02
MEASURING BOUNDARY LAYERS AND WAKES IN SUPERSONIC

N63-12797

06-11

CHEMICAL SCAVENGER STUDY OF ATOM AND EXCITED NOLECULE CONCENTRATION IN NONEQUILIBRIUM SUPERSONIC FLOW OF NITROGEN 12804 06-07

NONEQUILIBRIUM CENTERED EXPANSION OF DISSOCIATED SUPERSONIC GAS FLOW N63-13001 07-1

PRESSURE DISTRIBUTION ON IMPULSIVELY ACCELERATED
SUPERSONIC WEDGE AS INSIGHT TO FLOW FIELDS OF
MISSILE AND SPACECRAFT FLIGHT
SM-42649 N63-13004 07-02

HYDROGEN-AIR KINETIC CALCULATIONS IN SUPERSONIC

CH-1028 -7 1 - 21/0 - A TO - 19 A - 11 - N63-13035 - 07-26

CYLINDER AND SPHERE WAKES AT SUPERSONIC SPEED
JPL-TR-32-363 N63-13061 07-11

EFFECT OF FORWARD-FACING JET ON BOW SHOCK OF BLUNT BODY IN SUPERSONIC FREE STREAM NASA-TN-D-1605 N63-13186 07-02

RESONANCE TUBES IN SUPERSONIC FLOW FIELD
JPL-TR-32-378 N63-13447 08-02

SUPERSONIC FLOW FIELD OF AN AEROBALLISTIC PELLET -VELOCITY, PRESSURE, WAKE AND RATE CHEMISTRY EFFECTS ON ELECTRON DENSITY - COMPUTER PROGRAM GASL-TR-292 N63-13455 OB-07

AXISYMMETRIC DOUBLE CONE COMPRESSION INLET

CYLINDRICAL SHELLS IN SUPERSONIC FLOW AND IDEALIZED BOUNDARY LAYER EFFECT ON FLUTTER SM-62-49 N63-13979 09-11

SONIC GAS JET LATERAL INJECTION INTO SUPERSONIC DUCT FLOW 88-316 N63-14270 10-11

RESEARCH SUMMARY ON GASOVNAMICS AND PLASMADYNAMICS USCEC-83-101 M. HOUSE N63-14379 10-11

ELECTROGASDYNAMIC BLAST WAVE THEORY APPLIED TO FLOW OVER BLUNT BODY IN SUPERSONIC PARTIALLY TONIZED FLOW N63-14393 10-11

NOSE PRESSURE-DRAG COEFFICIENT OF TRUNCATED BODIES OF REVOLUTION IN SUPERSONIC FLOW NOLTR-62-11 N63-14027 11-02

UNIFORM SECOND ORDER SDLUTION FOR SUPERSONIC FLOW OVER DELTA MING USING REVERSED FLOW INTEGRAL EQUATIONS
N63-14921 11-03

NUMERICAL ANALYSIS OF EULERIAN HYDRODYNAMIC EQUATIONS FOR SUPERSONIC COMPRESSIBLE FLUID FLOW LAMS-2026 N63-14962 11-20

STREAMLINES ON SPHERE-CONE AT ANGLE OF ATTACK IN SUPERSONIC FLOW FROM MEASURED SURFACE PRESSURE DISTRIBUTION AERODYMANICS RES. REPT.-169 No3-15176 11-11

GAS DYNAMICS SIMILITUDE LAWS FOR SUBSONIC, SUPER-SONIC, AND MYPERSONIC FLOWS ON BASIS OF INTEGRAL THEOREMS FOR FRICTIONLESS GASES

STABILITY DERIVATIVES FOR TAPERED WINGS OF HEXAGONAL PLANFORM DSCILLATING IN SUPERSONIC STREAM ARC-82M-3298 N63-15742 12-03

HELIUM CONCENTRATION OF VENT EXHAUSTING HELIUM AT SONIC VELOCITY INTO SUPERSONIC STREAM OF AIR NASA-TH-D-1707 N63-15773 13-26

STAGNATION POINT HEAT TRANSFER TO HEMISPHERE
CYLINDERS IN SUPERSONIC AIR STAEAM AT LOW REVNOLDS
HUMBERS
ARL-63-25 N63-16487 14-13

SUPERSONIC FLOW FIELD ABOUT A BODY OF REVOLUTION
IN UNSTEADY MOTION 15-20

ENERGY ADDITION TO SUBSONIC AND SUPERSONIC GAS FLOWS BY HIGH FREQUENCY, SHORT DURATION ELECTRIC DISCHARGES BRL-63-54 N63-17395 15-24

HIGH INTENSITY MOLECULAR BEAMS USING SUPERSONIC PLOW - SQUID PROJECT N63-17912 10-11

PRESSURE DISTRIBUTION CALCULATIONS FOR SYMMETRICAL ROTATING BODIES WITH AXISYMMETRIC SUPERSONIC AND SUBSONIC FLOW USING APPROXIMATION COMPUTATION OVL-278

PRESSURE DISTRIBUTION ON FLAT PLATE BY SUPERSONIC ROCKET JETS EXHAUSTING INTO FREE STREAM FLOW NASA-TN-D-1507 N63-10206 01-11

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SUBSONIC, SUPERSONIC, AND HYPER: METHOD OF HYDRAULIC ANALOGY			HEAT TRANSFER COEFFICIENTS IN SUPERSONIC TO FLOWS OF RAREFIED GAS	
AGARD-399 THE PARTY OF THE PERSON OF			FTD-TT-62-974/16264 N63-23634	24-1
MEASUREMENT OF PITCHING-MOMENT (BLUNT-NOSED AIRFOILS OSCILLATING TWO-DIMENSIONAL SUPERSONIC FLOW	G IN	FOR	SUPERSONIC NONEQUILIBRIUM FLOW OVER A MEDGE SUDAER-160 M63-23689	24-6
ARC-R6H-3315	N63-17904		TURBULENT RADIAL FLOW BETWEEN PARALLEL DISC HAVING BOTH SUPERSONIC AND SUBSONIC FLOW RE	GIONS
BOUNDARY LAYER TRANSITION ON WII	578-53-1		SUPERSONIC FLUTTER	
NACA-RH-H58E28	CONTRACTOR F		SUPERSONIC EFFECTS OF THERMAL STRESS AND BU	CKLIN
JET COMPRESSOR FLOW PATTERNS - : SUPERSONIC			ON FLUTTER OF FLAT PANELS NASA-TN-D-1485 N63-10205	01-
PR-9 Profesional Profesion of the Control of the Co			FLUTTER PANEL TESTS IN TRANSDNIC AND SUPERS	ONIC
CHEMICAL REACTIONS AND PHASE CHA	N63-18570		WIND TUNNELS NA-62-1110 N63-10466	01-
CHEMICAL KINETICS IN SUPERSONIC			PANEL FLUTTER RESULTS FOR FLAT AND CURVED I SKIN PANELS AT SUPERSONIC SPEED	QIPER S
AERODYNAMIC FORCE ON CYLINDRICAL		INITE	NASA-TN-D-1600 N63-12004	05-
LENGTH IN SUPERSONIC FLOW FIELD AS-63-1	N63-18798	18-02	SUBSONIC AND SUPERSONIC FLUTTER CALCULATION SWEPT AND UNSWEPT WINGS TO EVALUATE EFFECTS VARIATIONS IN AERODYNAMIC PARAMETERS AND DE	OF
TURBULENT FRICTION ON A FLAT PLA		SONIC	NASA-TM-X-182 N63-12914	
FLOW RM-2968-PR	N63-19008	18-11	FLUTTER INVESTIGATION OF VERY LON ASPECT-RA FLAT-PLATE SURFACES AT SUBSONIC AND SUPERSO	
REVERSE FLOW INTEGRAL METHODS FO	OR SECOND-DRO	DER	SPEED NASA-TH-X-53	
CM-1033	N63-19454	19-11	SUPERSONIC FLUTTER OF WING-BODY CONFIGURATI	SUPPERS
NUMERICAL INTEGRATION OF NONEQUI		RSONIC	N63-13018	07-
IASA-TN-D-1942	N63-196C8	19-11	CYLINDRICAL SHELLS IN SUPERSONIC FLOW AND IDEALIZED BOUNDARY LAYER EFFECT ON FLUTTER	3 VOD
SCILLATING BODY OF REVOLUTION I			SM-62-49 N63-13979	PIATO
HIGH TEMPERATURE CONVECTIVE HEAT TURBULENT BOUNDARY LAYERS IN SUP TYPERSONIC GAS FLOWS IN SHOCK TO	PERSONIC AND		MODIFIED-STRIP-ANALYSIS FLUTTER CALCULATION FINITE SPAN WINGS AT SUPERSONIC SPEEDS NASA-TN-D-1824 N63-18234	
HOLD COMMISSINGS REMINDED AND A STANDARD TO THE PARTY OF	N63-20199	20-11	EXPERIMENT AND THEORY OF SUPERSONIC FLUTTER PANELS - LENGTH/WIDTH AND STRESS RATIOS TO	
ARC DISCHARGE THROUGH SUPERSONIC		DESTA	PLUTTER OF VARIOUS THICKNESSES AT MACH 3 NASA-TN-D-1948	21-
AIAA PAPER-63-380		20-11	SUPERSONIC NOZZLE	
PRESSURE CHARACTERISTICS IN SUBS SUPERSONIC FLOW - STATIC AND DYN PROBES	MAMIC PRESSUR	E	CF JET FLOW GAS RECOMBINATION EFFECTS ON SUPERSONIC PLA JET NOZZLE FLOW	SHA A
FFECT OF FRICTION ON OPTIMUM TH			FR-012-844 N63-11621	
INGS IN LINEARIZED SUPERSONIC F		21-03	THRUST AND PUMPING CHARACTERISTICS OF EJECT EXHAUST NOZZLES AT SUBSONIC AND SUPERSONIC	SPEED
AREFIED GAS DYNAMICS - EXPERIME		NATION	NACA-RM-E54H19 N63-12506	T-NEAM
OF SPHERE DRAG COEFFICIENTS IN STAREFIED GAS	N63-21601		SPECTROGRAPHY IN PLASMA JET ANALYSIS — CONI SUPERSONIC NOZZLE USING ARGON OR NITROGEN SC-4776/RR/	
ALCULATIONS OF SUPERSONIC FLOW PHERICAL CAPPED BODIES - BLUNT			AXISYMMETRIC FLOW OF REAL GAS IN SUPERSONIC	424
ASA-TM-X-50419	N63-21900	22-02	NOZZLES - COMPUTER METHOD FTD-TT-62-1057/16264 - 33 3 3 4 4 4 M63-16926	STUDIES.
ORTRAN PROGRAM FOR CALCULATING HROUGH CURVED CHANNELS	SUPERSONIC F	LOW	AERDDYNAMIC AND MECHANICAL TESTS OF A MODEL	2 (12/4)(2
RL-63-117	N63-22143	0-184	VARIABLE SUPERSONIC NOZZLE ARC-CP-629	
NTERACTION BETWEEN SUPERSONIC M IVERGENT NOZZLE AND SECONDARY F HROUGH SIDE OPENINGS			CHEMICAL REACTIONS IN SUPERSONIC NOZZLE FLO VIBRATIONAL RELAXATION - ELECTRON-ION	WS -
RL-63-102	N63-22195	23-02	RECOMBINATION - SUDDEN FREEZING ANALYSIS N63-18573	O ASTURE
ASE FLOW ON BLUNT TRAILING-EDGE NO SUPERSONIC SPEEDS		BSONIC	AXISYMMETRIC AND ANNULAR SUPERSONIC NOZZLE	09-91
AC-ACH-3323	M63-22214	23-02	PROFILES NASA-CR-52188 N63-23656	
ECOND-ORDER THEORY OF OPTIMUM TINGS IN SUPERSONIC FLOW INCLUDE			SUPERSONIC SPEED	ASA-16
FFECTS LIGHT SCIENCES LAB. TR-79	N63-22325	23-03	CF HYPERSONIC SPEED RAIN EROSION ON SURFACES IN THE SUPERSONIC	REGIO
ANGMULE PROBE HEASUREMENTS IN S	TACHATION DO	TMT	WGL PAPER-61 180134 TRANSI N63-10056	01-

N63-22413 23-24

LANGMUIR PROBE MEASUREMENTS IN STAGNATION POINT BOUNDARY LAYER OF BLUNT-NOSED BODY IN SUPERSONIC PLASMA FLOW - ELECTRON DENSITY UTIA-TN-58 N63-22413 23-2

3

13

12

3

3

3

MELIUM FILM CODLING ON A HEMISPHERE AT SUPERSONIC SPEED
MASA-TH-D-1550
N63-10207 01-13
MAS RECOMBINATION EFFECTS ON SUPERSONIC PLASMA ARC
JET NOZZLE FLOW
MS3-012-844
N63-11621 04-24

JET EFFECTS ON ANNULAR BASE PRESSURE AND TEMPERATURE IN A SUPERSONIC STREAM NASA-TR-R-125 N63-11779 04-02

FREE FLIGHT HEASUREMENTS OF PRESSURE DISTRIBUTION AT TRANSONIC AND SUPERSONIC SPEED ON BODIES OF REVOLUTION HAVING PARABOLIC AFTERBODIES AGC-86M-3290 04-02 04-02 04-02

AERODYNAMIC FORCES ON OSCILLATING THO-DIMENSIONAL VING IN ACCELERATED SUPERSONIC FLIGHT ARC-REM-3299 N63-11903 04-03

PATTERN VARIATIONS IN SUPERSONIC JET FLOW THROUGH CONTOURED NOZZLES UNDER OVEREXPANSION CONDITIONS STUDIED BY SCHLIEREN PHOTOS AND STATIC PRESSURES N63-12269 05-11

DENSITY DISTRIBUTION IN TWO AND THREE-DIMENSIONAL SUPERSONIC JETS INCLUDING DISTRIBUTION MAPS N63-1271 05-1:

APPROXIMATE SOLUTION FOR FLOW ABOUT FLAT-TOP WING BODY CONFIGURATION AT SUPERSONIC SPEEDS NACA-RM-ASBFO2 N63-12505 06-02

PRESSURE STUDY OF SCALE MODEL XSM-64A NAVAHO MISSILE AND BOOSTER AT SUPERSONIC SPEEDS MASA-TM-X-17 N63-12549 06-02

EFFECTS OF WING VERTICAL LOCATION ON STABILITY AND CONTROL OF CANARD AIRCRAFT AT SUPERSONIC SPEEDS NASA-TM-X-44 N63-12551 06-02

STATIC STABILITY AND CONTROL CHARACTERISTICS OF AIRCRAFT MODEL WITH TAIL SURFACES OUTBOARD OF WING TIPS MASA-TM-X-47

AFTERBURNING RAMJET USING HYDROGEN AT MACH 3.0 NACA-TH-E57C29 N63-12908 07-27

PRESSURE DISTRIBUTIONS AND AERODYNAMIC
CHARACTERISTICS OF SPOILER-TYPE CONTROLS ON
TRAPEZOIDAL WING AT SUPERSONIC SPEED
NACA-RM-L58E22
N63-12910
07-03

AERODYNAMIC CHARACTERISTICS OF FLAT-BOTTOM WING-BODY COMBINATIONS AT MACH 3-0 AND 3-5 N63-12913 07-02

AERODYNAMIC CHARACTERISTICS OF BODY IN FLOW FIELD NEAR TIP OF CIRCULAR-ARC WING OF RECTANGULAR PLANFORM AT MACH 2.01 MASA-TM-X-211 N63-12915 07-03

STATIC STABILITY OF SQUARE AND CIRCULAR PLANFORM
REENTRY VEHICLES AT MACH 3.11 - EFFECTS OF
CONTROLS AND LEADING-EDGE EXTENSIONS
NASA-TH-X-272
N63-12916 07-02

AERODYNAMIC CHARACTERISTICS OF AIRCRAFT
CONFIGURATION WITH CAMBERED AND TWISTED ARROW WING
AT SUPERSONIC SPEED
NA3-TP-X-115"
NA3-12981 07-02

SUPERSONIC FLUTTER OF WING-BODY CONFIGURATIONS
N63-13018 07-33

CYLINDER AND SPHERE WAKES AT SUPERSONIC SPEED No.3-13061 07-11

EFFECT OF CAMBER ON AERODYNAMIC CHARACTERISTICS
OF OGIVE-CIRCULAR-CYLINDRICAL BODY AT MACH 2.01
NASA-TM-X-56 N63-13106 07-02

OFF-DESIGN AERODYNAMIC CHARACTERISTICS OF SWEPT ARROW WINGS WITH TWIST AND CAMBER AT SUPERSONIC VELOCITIES NASA-TH-D-1630

MORCES OACH OF TRADE-OFF THIS WEEK DEST, WIRE ABOUT ..

AERODYNAMIC DRAG AND STABILITY OF TOWED INFLATABLE DECELERATORS AT SUPERSONIC SPEEDS NASA-TN-D-1601. N63-13716 GB-02

POSTBUCKLING EFFECTS ON FLUTTER OF SIMPLY SUPPORTED RECTANGULAR PANELS AT SUPERSONIC SPEEDS BY VON KARMAN THEORY NASA-TH-0-1615 N63-13717 OB-33

DEPENDENCE OF SHOCK WAVE STRENGTH ON PROJECTILE
SHAPE AND REVIEW OF SHAPE FACTOR THEORY - MINGBODY CONFIGURATION N63-13832 09-02

CONICAL CAMBER USED TO PRODUCE FLOW ATTACHMENT AT LEADING EDGE OF DELTA WING AND TO MINIMIZE LIFT DEPENDENT DRAG AT SONIC AND SUPERSONIC SPEEDS ARC-RGM-3289 09-13

SUPERSONIC STORE INTERFERENCE - 1, SWEPT-MING HEAVY BOMBER WITH LARGE STORES - LIFT E DRAG AT MACH 1.61 NG3-13860 09-02

ORIGIN & DISTRIBUTION OF SUPERSONIC STORE
INTERFERENCE/MEASUREMENT OF INDIVIDUAL FORCES —
SWEPT-WING MEAVY BOMBER WITH LARGE STORE FIGURE
NACA-R#-L55K15 NS3-13870 09-02

ORIGIN AND DISTRIBUTION OF SUPERSONIC STORE
INTERFERENCE/MEASUREMENT OF INDIVIOUAL FORCES ON
DELTA-WING HEAVY BOMBER CONFIGURATION MACH 1-61
NACA-RM-L55127A N63-13871 09-02

ORIGIN OF SUPERSONIC STORE INTERFERENCE FROM MEASUREMENTS OF INDIVIDUAL FORCES - SWEPT-WING FIGHTER-BOMBER WITH LARGE & SMALL STORES NACA-RM-L55H01 09-07

LIFT AND DRAG OF SWEPT-WING FIGHTER AIRCRAFT AT TRANSONIC AND SUPERSONIC SPEEDS
NASA-MEMO-10-1-58H
N63-13885 / 09-04

AERODYNAMIC HEATING TESTS OF MISSILE STABILIZERS IN FREE JET AT SUPERSONIC SPEEDS MASA-TH-X-299 N63-13901 09-03

SUPERSONIC FREE-FLIGHT TEST OF DELTA BOOST-GLIDE FIGURE WITH ANALOG STUDY OF COUPLED MOTIONS NASA-TH-X-425 09-32

DISK SHAPED REENTRY BODY AT TRANSONIC AND LOW SUPERSONIC SPEEDS NASA-TW-4-652 N63-14681 10-02

AERODYNAMIC CHARACTERISTICS OF TOWED BODIES -SPHERES, CONES, AND CONICAL RINGS - DECELERATORS AT SUPERSONIC SPEEDS
NASA-TH-D-1789
NASA-TH-D-1789
NASA-TH-D-1789

BASE PRESSURE ON THO-DIMENSIONAL BLUNT-TRAILING EDGE WINGS AT SUPERSONIC SPEEDS N63-14039 13-03

DELTA WINGS AT SUPERSONIC SPEED - HEAT TRANSFER, RECOVERY TEMPERATURE, AND PRESSURE DISTRIBUTION FFA-93 N63-17075 15-03

EQUATIONS FOR PREDICTING AERODYNAMIC STABILITY OF BODIES OF REVOLUTION WITH OFFSET CENTERS OF GRAVITY AT SUPERSONIC AND HYPERSONIC SPEEDS NAME NASA-TN-D-1085 N63-17552 16-20

AERODYNAMIC CHARACTERISTICS OF MERCURY CAPSULE AT SUPERSONIC SPEED N63-17990 16-02

STATIC STABILITY EVALUATION OF MERCURY CAPSULE IN WIND TUNNEL AT TRANSONIC, SUPERSONIC AND HYPERSONIC SPEED NASA-TR-X-433 N63-18038 16-30

押心に関 をは

治の程

SU

DROGUE RIBBON PARACHUTE TESTS AT HIGH ALTITUDES AND LOW SUPERSONIC SPEEDS NASA-TH-X-448 N63-18039 16-04	CRACK PROPAGATION PREDICTION AND PREVENTION TECHNIQUES FOR STIFFENED CYLINDERS IN SUPERSONIC TRANSPORT ENVIRONMENT
FLUTTER ANALYSIS OF BUCKLED CURVED PANELS AT	DAC-30932 N63-13829 09-33
TRANSONIC AND SUPERSONIC SPEEDS NASA-NEMO-5-18-59L N63-18042 16-33	LITERATURE SUMMARY OF CRACK PROPAGATION FOR STIFFENED CYLINDERS IN SUPERSONIC TRANSPORT DAC-31150 N63-13924 09-33
INVERSE METHOD FOR DETERMINING THREE-DIMENSIONAL SUBSONIC FLOW REGION ABOUT NOMAXISYMMETRIC BLUNT BODIES AT SUPERSONIC FREE STREAM MACH NUMBER SSD-TOR-63-119 N63-18192 16-02	CRACK PROPAGATION PREDICTION AND CRACK STOPPER TECHNIQUES FOR STIFFENED CYLINDERS IN A SUPERSONIC TRANSPORT ENVIRONMENT
SUPERSONIC WIND TUNNEL TESTS OF SPHERE DRAG	DAC-31044 N63-13966 09-33
JPL-TR-34-160 N63-18848 18-02	FAA AND NASA JOINT SUPERSONIC TRANSPORT SIMULATOR PROGRAM N63-14100 09-10
AERODYNAMIC CHARACTERISTICS OF LOW-ASPECT-RATIO WINGS AT SUPERSONIC SPEEDS NACA-RM-L53123 N63-20533 20-03	HEAT INTERCEPT COOLING SYSTEM FOR THE SUPERSONIC TRANSPORT - ABSORPTION OF AERODYNAMIC HEAT AND
FLUTTER OF SIMPLY SUPPORTED ORTHOTROPIC PANELS AT	SUBSEQUENT DISCHARGE N63-14572 10-13
SUPERSONIC SPEEDS NASA-TH-D-1949 N63-21065 21-33	SUPERSONIC TRANSPORT MATERIALS - NASA PROGRAMS NASA-TN-D-1798 N63-16296 13-18
ACTION OF TRANSVERSAL JET IN SUPERSONIC FLOW - GAS	CRASH-FIRE PREVENTION SYSTEM FOR SUPERSONIC
INJECTION IN DIVERGENT SUPERSONIC JET N63-22487 23-02	COMMERCIAL TRANSPORT . N63-16413 14-06
LOW-DENSITY SPHERE DRAG WITH EQUILIBRIUM AND NONEQUILIBRIUM WALL TEMPERATURES AT SUPERSONIC SPEEDS	SUPERALLOYS FOR SUPERSONIC TRANSPORTS - INFLUENCE OF NOTCH ACUITY ON NOTCH STRENGTH OF RENE 41, WASPALOY, AND D979 ALLOY NASA-CR-50178 N63-16562 14-33
NASA-CR-52015 N63-23050 24-02	VIT-100 250 LT-5100 200 LT-5100 200 LT-510 L
WING-TAIL INTERFERENCE AT SUPERSONIC SPEEDS USCEC-65-56 N63-23102 24-02	CYCLING FATIGUE BEHAVIOR OF MATERIALS FOR SUPERSONIC TRANSPORTS - TENSILE STRESS-STRAIN DATA NASA-CR-50365 N63-17221 15-33
HEATING EFFECT ON SPACECRAFT REENTRY AT SUPERSONIC SPEED - DECELERATOR PROBLEMS N63-23315 24-13	ECONOMIC IMPACT OF SUPERSONIC TRANSPORT AIRCRAFT ON COMMERCIAL AVIATION
SUPERSONIC SPEED PARACHUTE DECELERATORS N63-23317 24-03	FFA-94 N63-17596 16-01 HYDRAULIC FLUIDS FOR SUPERSONIC TRANSPORT
N63-23317 24-03 INFLATION STABILITY TESTS ON SUPERSONIC POROUS	N63-17838 16-17
PARACHUTES USING AXISYMMETRIC FLOW ANALYSIS - DECELERATORS N63-23318 24-02	TESTING METHODS FOR GAS TURBINE ENGINE LUBRICANTS FOR SUPERSONIC TRANSPORT N63-17846 16-17
VELOCITY AND PRESSURE DISTRIBUTION IN MAKE OF BODY OF REVOLUTION AT TRANSONIC AND SUPERSONIC SPEED N63-23321 24-02	BROMODICHLOROHEXAFLUOROBUTANE FOR USE IN IN-FLIGHT FIRE EXTINGUISHERS FOR SUPERSONIC TRANSPORT N63-18082 16-19
ROLLING MOTION OF 79-DEG CLIPPED DELTA WING CONFIGURATION AT SUPERSONIC SPEED - FREE FLIGHT	COMMERCIAL SUPERSONIC TRANSPORT AIRCRAFT RED - BIBLIOGRAPHY N63-18173 16-04
INVESTIGATION NASA-TN-D-2017 N63-23652 24-30	PROTECTIVE COATINGS FOR SHEET METALS IN SUPERSONIC TRANSPORT AIRCRAFT
SUPERSONIC TRANSPORT	NASA-CR-50824 . N63-19967 19-17
LIGHTWEIGHT ALLOY AND SLENDER WING DESIGN FOR SUPERSONIC TRANSPORT AIRCRAFT	SIMULATOR STUDY OF AEROSPACE REQUIREMENTS FOR SUPERSONIC TRANSPORT
WGL PAPER-6 N63-10005 01-04	NASA-TN-D-1964 N63-20890 21-04
SIGNIFICANT PROBLEMS IN THE INAUGURATION OF SUPERSONIC TRANSPORT AIRCRAFT	SUPERSONIC TRANSPORT PROGRAM - TECHNOLOGY AND
WGL PAPER-8 N63-10007 01-04	COST OF COMMERCIAL AIRCRAFT DEVELOPMENT N63-21028 21-02
SUPERSONIC TRANSPORTS - AIRCRAFT AND LANDING-GEAR FACTORS AND RESPONSE TO RUNWAY ROUGHNESS NASA-TN-D-1492 N63-10624 02-04	COMMERCIAL AIR TRANSPORT DEVELOPMENT - HELICOPTERS V/STOL AIRCRAFT, & SUPERSONIC TRANSPORTS NASA-TH-X-50303 N63-22160 23-04
NASA AERONAUTICAL RESEARCH PROGRAM - HELICOPTERS, SUPERSONIC TRANSPORT, STOL VEHICLES, MULTIMISSION AIRCRAFT & X-15 - CONGRESSIONAL HEARINGS M63-12138 05-01	EXHAUST NOZZLE NOISE SUPPRESSION PROGRAM FOR SUPERSONIC TRANSPORT PROPULSION SYSTEMS SO-1-11 N63-23763 24-27
INTERNAL AND EXTERNAL COMPRESSION STUDIES OF TURBOJET INTAKES AND EXHAUSTS FOR SUPERSONIC TRANSPORT AIRCRAFT N63-12483 06-02	ACHIEVING NOISE SUPPRESSION & HIGH THRUST PERFORMANCE WITH PLUG-TYPE EXHAUST NOZZLES FOR SUPERSONIC TRANSPORTS N63-23764 24-27
DELTA WING CONFIGURATION FOR SUPERSONIC	SUPERSONIC TRANSPORT PROPULSION SYSTEM AUXILIARY
TRANSPORT AIRCRAFT IAS PAPER-63-5 N63-12883 07-04	POWER EXTRACTION - GAS TURBINES N63-23765 24-27
FRACTURE TOUGHNESS OF STAINLESS STEEL FOR	SUPERSONIC WIND TUNNEL
SUPERSONIC TRANSPORT DM1C-MEMO-164 N63-13503 08-33	BEHAVIOR OF TURBULENCE CAUSED BY WATER VAPOR CONDENSATION IN A SUPERSONIC WIND TUNNEL MOZZLE
HYDRAULIC FLUIDS FOR SUPERSONIC TRANSPORT AIRCRAFT	WGL PAPER-68 S ANT - N63-10062 01-01
TESTING PROGRAM RAC-1047 N63-13558 08-06	SUPERSONIC WIND-TUNNEL TESTS ON SKYLARK ROCKET + FORCE & MOMENT
	HSA-86 N63-10153 01-02

C --33

9-33
9-33
9-33
9-10
1C
1C
9-13
9-18

DATA 5-33 FT 5-01 5-17 IGHT 6-19 5-04 DMIC 3-17

1-04

1-02 FERS 3-04

4-27

6-27 RY 6-27

E 1-03

1-02

FLUTTER PANEL TESTS IN TRANSONIC AND SUPERSONIC MIND TUNNELS NA-62-1110 N63-10466 01-03	MAINTAINABILITY, AND SUPPLY N63-20733 21-01
SUPERSONIC WIND TUNNEL TESTS ON EXPERIMENTAL STATIC PRESSURE PROBES USCEC-65-50 N63-10763 02-02	SUPPORT EFFECT OF FORMARD ACCELERATIONS, STAGED EVISCERATION AND SUPPORT SYSTEMS UPON INTRAPULHONARY PRESSURES IN ANIMALS AMRTOR-62-106 AMS-10105 01-14
DESIGN AND PERFORMANCE OF NOZZLES FOR A SUPERSONIC BLOWDOWN WIND TUNNEL N63-11909 04-02	ELASTIC BUCKLING OF SIMPLY SUPPORTED CORRUGATED CORE SANDWICH CYLINDERS N63-10833 02-33
THRUST CHARACTERISTICS AND PRESSURE DISTRIBUTION OF CONVERGENT-DIVERGENT NOZZLES NASA-TM-X-83 N63-12554 06-02	FULL BODY SUPPORT SYSTEMS - AEROEMBOLISM, LINEAR ACCELERATION, HUMAN TOLERANCE N63-12868 07-16
SUBSONIC AND SUPERSONIC WIND TUNNEL STUDY OF LOW ASPECT RATIO SWEPTBACK WING TAILLESS FIGHTER AIRCRAFT HODEL/STABILITY AND CONTROL	STUB-SUPPORTED RING AND BAR TRAVELING WAVE TUBE N63-14415 10-23
NACA-RM-A52J30 NACA-RM-A52J30	SUPPORT INTERFERENCE DESIGN AND OPERATION OF HYPERSONIC WIND TUNNEL EQUIPPED WITH ASYMMETRIC CONTOURED NOZZLE AND INJECTION-TYPE MODEL SUPPORT SYSTEM AEDC-TOR-62-229 N63-15113 11-10
MEASURING DEVICES FOR INTERMITTENT SUPERSONIC WIND TUNNELS - BALANCES WITH STRAIN GAUGES - PRESSURE GAUGES	S GROUND SUPPORT SYSTEM S LIFE SUPPORT SYSTEM
DVL-182 N63-14423 10-15 SUPERSONIC WIND TUNNEL HODEL CALIBRATION AT HACH 1-5 TO 4-5	SUPPRESSOR PHOTO-CURRENT SUPPRESSOR GAUGE FOR NEASUREMENT OF VERY LOW PRESSURES R-156 N63-10551 01-15
AEDC-TDR-63-47 N63-14769 11-15 SUPERSONIC WIND TUNNEL TESTING - SCOUT VEHICLE FIN LOAD AND TIP CONTROL HINGE MOMENTS NASA-TH-X-239 NASA-TH-X-239	EFFECT OF NOISE SUPPRESSION DEVICES ON TURBOJET ENGINE TESTING AND TURBOJET AIRCRAFT RUN-UP GROUND OPERATION - TEST FACILITY CALIBRATION ANRTOR-62-134 N63-16274 13-04
DESIGN OF SUPERSONIC-HYPERSONIC BLOWDOWN WIND TUNNEL HSA-85 N63-17760 16-10	METHOD FOR SUPPRESSING PHOTOMULTIPLIER NOISE UCRL-6886, REV. 1 M63-17537 16-09
TEST PROGRAM AND PERFORMANCE CHARACTERISTICS FOR SUPERSONIC WIND TUNNEL	SPURIOUS FREQUENCY SUPPRESSION WITH LOW PASS, BAND PASS, 6 BAND STOP FILTERS ON RADIO TRANSMITTERS RADC-TDR-63-302 N63-20411 20-08
HEAT TRANSFER, TEMPERATURE DISTRIBUTION AND WALL STATIC PRESSURE OF CIRCULAR CYLINDER IN	EXHAUST NOZZLE NOISE SUPPRESSION PROGRAM FOR SUPERSONIC TRANSPORT PROPULSION SYSTEMS SO-1-11 N63-23763 24-27
SUPERSONIC WIND TUNNEL NASA-TR-R-104 PENETRATION OF THUNDERSTORMS BY AIRCRAFT FLYING AT SUPERSONIC SPEEDS - RADAR PHOTOGRAPHS AND GUST LOADS IN THREE STORMS OF 1961 ROUGH RIDER NSSP-15 N63-19173 18-21	ACHIEVING NOISE SUPPRESSION & HIGH THRUST PERFORMANCE WITH PLUG-TYPE EXHAUST NOZZLES FOR SUPERSONIC TRANSPORTS N63-23764 24-27 SURD S QUADRATIC SURD
SUPERSONIC WIND TUNNEL STABILITY TESTS OF WINGLESS MISSILE WITH SIDE JET WINGS 0TM8-AERO-1055 N63-19882 19-03	SURFACE SURFACE SA CONTROL SURFACE SA CURVED SURFACE S
SUPERSONIC WIND TUNNEL PRESSURE MEASUREMENTS N63-20805 21-15	SA LAMBERT SURFACE SA LIFTING SURFACE SA LIFTING SURFACE SA LIFTING SURFACE SA LIBRAR SUBFACE SA LIBRAR SUBFACE SA SURFACE SA SURFAC
ASYMMETRIC PENSHAPE NOZZLE IN SUPERSONIC WIND TUNNEL FOR ATTITUDE CONTROL OF MULTISTAGE VEHICLE NASA-TH-D-1561 N63-21007 22-31	SA METAL SURFACE TWO MUTHORAL BOUNDEDAYS CHA SA PLANETARY SURFACE SA RIEMANN SURFACE SA SOLID SURFACE SA THREE MAY THOUGHT TO ASSOCITE
FLOW CHARACTERISTICS OF 12-INCH INTERMITTENT SUPERSONIC WIND TUNNEL AEDC-TDR-63-203 334416 2446 N63-22438 23-02	SA SPECIFIC SURFACE TO SOLITE INSIDERAM PRODUCTS SA SUBSURFACE TO SOLITE INSIDERAM SA T TAIL SUBFACE
HIGH SPEED WIND TUNNEL FOR AEROSPACE RESEARCH - DESIGN AND OPERATION OF TRISORIC WIND TUNNEL SR-AE-1-63 N63-22672 23-10	SA TAIL SURFACE CF INTERFACE CF LUMAR SURFACE VEHICLE CF PLARE
SUPERSONIC WIND TUNNEL DETERMINATION OF NOZZLE HINGE-MOMENT COEFFICIENTS FOR SATURN I WITH &	RAIN EROSION ON SURFACES IN THE SUPERSONIC REGION WGL PAPER-61 DEFORMATION OF A TRAVELING RAGNETIC FIELD UNDER
MITHOUT JET FLOW MASA-TH-D-1962 SUPERSONIC WIND TUNNEL APPARATUS	THE SURFACE OF A COMOUCTIVE MEDIUM FTO-TT-62-901/162 M69-10302 01-23
BOUNDARY LAYER THICKNESS ON CURVED WALLS OF 20-IN SUPERSONIC WIND TUNNEL TWO-DIMENSIONAL NOZZLE NASA-CR-52252 N63-23634 24-10	THEORY OF ANTENNAS WITH CORRUGATED GUIDING SURFACE FTO-TT-62-1140/162 N63-10304 01-08
SUPPLY SA POWER SUPPLY DECISIONS OF TRADE-OFF BEIWEEN COST, RELIABILITY,	FLOW OF A VAPORIZED LIQUID FILM ON THE SURFACE OF A COME BLOWN BY GAS FTD-TT-62-1031/16264 N63-10345 01-11

FIE

GRE EXP

GRO

CON HEA ART AFC

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SUR

SUR

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EST

REL SUR SHA JPR

DIH HEA IRR R-9

ATR

	EFFECTS OF SURFACE IRREGULARITIE: HYPERSONIC AERODYNAMIC HEAT TRANS PLATE	S ON THE SFER TO A FI N63-10380	LAT	LUBRICANT RELAXATION BETWEEN INVOLUTE GEA VISCOELASTICITY, SUR ARDD-2458-41
	PROJECTED AREAS OF AXISYMMETRIC : FOR SEVERAL GEOMETRIC FIGURES	SURFACE SECT	193	SURFACE IRREGULARITI
	THEORY OF ELASTIC STABILITY AND	POSTBUCKLING	AME	ONERA-TH-70-1962
	TENSOR ANALYSIS	N63-10755	A SHIPLY I	SURFACE RESISTANCE C
	SPECTROSCOPY OF SOLID STATE SURFABSORBED MOLECULES, GERMANIUM, STAFCRL-62-585	ACES CONTAIN	NING	QUALITATIVE SOLUTION BOUNDARY LAYER IN CO FLEXIBLE SURFACE
	CESIUM COATED TUNGSTEN ELECTRODES		DOWN	ARC-CP-622 MEASUREMENT OF PARTI SPACE VEHICLES
	SECOND-ORDER SOLUTIONS FOR SUPERS CRUCIFORM SURFACES CM-1019			AFCRL-63-20L STAGNATION AND WAKE BOUNDARY LAYER THEOR
	AERODYNAMICS OF DISTORTED SURFACE	ES		NWL-1840
	TURBULENT BOUNDARY LAYERS ON HIGH	N63-11067	03-02	STABILITY AND CONTRO FUSELAGE COMBINATION WING LEADING EDGE SH
	SURFACES AT HIGH MACH NUMBERS	N63-11075	03-11	NASA-MENO-3-5-59A
	SURFACE-PIERCING HYDROFOIL STABIL BY FREE OSCILLATION TECHNIQUE			PLUG-IN-TYPE SURFACE MASS SPECTROMETER WI Y-1415
		N63-11312	03-11	SURFACE EFFECTS OF R
	SURFACE AND VOLUME PROPERTIES OF NUCLEAR MATTER	GROUND STAT	TE. ST	TRANSISTOR CIRCUITS
	ANL-6623	N63-11689	04-20	JET BLAST EFFECT ON
	IMPACT OF RIGID AND FLEXIBLE BODI OF COMPRESSIBLE FLUID - AERODYNAM CU-1-63-ONR-266/86/-CE	IES ON SURFA HIC ANALOGY N63-12307	05-11	ENVIRONMENT ERR-AN-244
ФK	BOUNDARY LAYER ALONG A FLAT SURFA	ACE NORMAL 1		FREE BOUNDARY MIGRAT MIXTURES - SEDIMENTA
	VORTEX FLOW NWL-1035	N63-12368	06-11	UCRL-10640
	MEASUREMENT OF ADSORPTION ONTO ES	XPLOSIVE SUI	RFACES	DEGREE OF SURFACE DA FIBERS OF DIFFERENT RDR-1343-1
	PA-TR-3008	N63-12426	06-07	RESONANT TUBE TECHNI
	INVESTIGATION OF HIGH SUBSONIC TO ROTOR BLADE SUCTION, SURFACE DIFFO NACA-RH-E56118		06-06	MEASUREMENT OF SOLIC
	HEAT TRANSFER IN REGIONS OF SEPARREATTACHED FLOWS		0402	FRACTURE SURFACE CON BY TEMPERATURE AND G WAL TR 320.1/10
	NACA-RH-L57D25B	N63-12647	06-02	
	DEFORMATION MECHANISMS OF SURFACE STRUCTURES WITH SCREW SHAPE	ES FOR EXPAN	MOABLE	OF HEATED OR COOLED INFLUENCE ON HEAT-TR
	ARC-R-72	N63-12656	06-34	EUR-237.F
	ULTRAHIGH VACUUM HEAT TREATMENT (AND EVAPORATION OF CHROMIUM ONTO AFCRL-62-971	CLEAN SURFA	ACES	NOLTR-63-10
	STUDIES OF VELOCITY PROFILE, SKIP TRANSFER CHARACTERISTICS OF TRANS SURFACE		HEAT-	HEAT TRANSFER CONTRO PERMANENT STRUCTURES
	RADIATION COOLING AERODYNAMICALLY	DANNER SLAT	RFACES	HEAT BALANCE ON HARS SOLAR RADIATION ABSO
	FULLY CAVITATING TWO-DIMENSIONAL HYDROFOIL NEAR FREE SURFACE		(1) 1) (1) 3) (1)	GEOLOGICAL AND GEOPH SURFACE AND BODY OF JPL-TR-32-400
	E-116.12	N63-13087	07-11	HEAT DISSIPATION IN
	EFFECT OF ION BOMBARDMENT ON CARS PHOTOCONDUCTIVITY AND SURFACE STR GERMANIUM CRYSTALS - SEMICONDUCTO	RUCTURE OF		RADIATION TRANSMISSI CRYOPUMPING SURFACES AEDC-TDR-63-75
	ARF-3190-6	N63-13197	07-25	and the second second
	FREE BOUNDARY PROBLEM FOR LAPLACE	E EQUATION N63-13331	0747	EFFECT OF SURFACES OF METALS ASD-TDR-63-101
	a described hard and works through a service	CHARLES SPECIAL	54 Fg. 2.57	

PAINTS AND SOLAR REFLECTORS AS TEMPERATURE CONTROL SURFACES FOR SPACECRAFT JPL-TR-32-340 N63-13441 08-13

N EFFECTS IN OIL FILM THICKNESS
AR TEETH - SQUEEZE FILMS,
RFACE DEFORMATION & ROUGHNESS
N63-13487 08-17 TES IN GLASS FIBERS AND LATERAL N63-13526 08-19 OF SUPERCONDUCTORS N63-13679 08-23 N OF STABILITY EQUATION FOR ONTACT WITH VARIOUS FORMS OF 09-11 N63-13847 TCLE DAMAGE TO SURFACES OF N63-14064 09-30 FLOWS, NORMAL TO FLAT SURFACE, N63-14190 N AT SUBSONIC SPEED - EFFECT OF WEEPBACK 11-02 E IONIZATION SOURCE FOR ITH VACUUM EQUIPMENT N63-14793 11-23 RADIATION ON SEMICONDUCTING - RADIATION HAZARD N63-15124 11-25 DUST COVERED SURFACE IN VACUUM N63-15216 11-11 TION AND FRACTIONATION OF CELL ATION AND ELECTROPHORESIS N63-15319 12-11 MANAGE ON STRENGTH OF GLASS LENGTHS N63-15481 12-19 IQUE FOR ACOUSTIC ADMITTANCE D PROPELLANT SURFACE COMBUSTION N63-15579 12-26 NFIGURATION OF STEEL AFFECTED N63-15625 12-18 UTION ANOHALY IN SURFACE LAYERS JACQ EFFECT AND RANSFER COEFFICIENT IRFACES UPON EPOXIDE POLYMERS N63-15844 13-07 OL BY MASS TRANSFER FOR S - SURFACE COOLING N63-16059 13-13 S SURFACE - MARS ATMOSPHERE N63-16198 13-29 ORPTION HYSICAL PROBLEMS CONCERNING THE N63-16444 SPACE ENVIRONMENTAL CHAMBERS -N63-16530 14-08 ON MECHANICAL BEHAVIOR OF N63-16576 14-18 METEOROID SURFACE EROSION BY COSMIC RADIATION N63-16655 14-29

ESS S-17 RAL -19

-11

-30 CE, -11 OF

-23

-25 UUM -11 LL

-19.

10N -26 D -18 ERS -13

-13 --29 THE

-29

-18

MIGIN OF FATIGUE CRACK AS SURFACE PHENOMENA M-3164-PR MG3-17014 15-3:	EQUATIONS OF MINIMAL SURFACE TYPE - NEW ESTIMATES AND BOUNDARY BEHAVIOR QUESTIONS N63-22627 23-20
RECTRON EMISSION FROM SMOOTH SURFACES BY ELECTRIC	CONCESSES OF COLUMN OF MANAGE PROCESS AND ADDRESS
FIELDS IN VACUUM AND ELECTRICAL BREAKDOWN N63-17191 15-2	EQUATIONS N63-22629 23-20
GROUND WAVE PROPAGATION FROM NUCLEAR MEAPON EXPLOSION AT SURFACE 0ASA-1357/1V/ N63-17321 15-2:	VARIOUS TEST FIELDS PRESCRIBED OVER SURFACE OF A
GROUND WAVE PROPAGATION DUE TO SURFACE NUCLEAR EXPLOSION N63-17326 15-2	the state of the s
NUCLEAR EXPLOSION - PRESSURE PULSE FOR SPHERICAL CAVITY IN HALF SPACE AND STRESS LOADING ON SURFACE N63-17327 15-2:	SOLAR COLLECTORS FOR ENERGY CONVERSION DEVICES AND THE EFFECT OF SURFACE DISTORTION ON CONVERSION
HEAT AND MASS TRANSFER AT EVAPORATION COOLED HIGH	EFFICIENCY NASA-CR-51542 N63-23522 24-15
TEMPERATURE SURFACES NA-2997-PR N63-17452 15-2	THE PARTY OF THE P
SURFACE IONIZATION OF CESTUM ON POROUS TUNGSTEN, RHENIUM, MOLYBOENUM, AND TANTALUM - COMPARISON OF	NRL-5963 N63-23774 24-17 SURFACE ENERGY
POROUS MATERIAL AND SOLID SURFACE DATA N63-17658 16-1	SURFACE ENERGY EFFECT ON LIQUID-VAPOR INTERFACE
CONTROL OF APERTURE FIELDS - SURFACE CURRENT MEASUREMENTS, ANTENNA PATTERN SYNTHESIS,	NASA-TN-D-1582 N63-12160 05-26
ARTIFICIAL DIELECTRIC MEDIA, AND NETWORK SYNTHESI: AFCRL-62-932 N63-17748 16-0	SOLID SURFACE MORPHOLOGIES GOVERNED BY CAPILLARITY AND THERMODYNAMICS OF SURFACES - CRYSTAL ANISOTROPY
PHOTOGRAMMETRIC METHOD FOR DETERMINING TOPOGRAPHY OF LIQUID SURFACES	AROD-2761-3 (18-20) 19 19 19 19 14 N63-14361 10-23
MC-1196 N63-17761 16-1	CLEAVAGE SURFACE ENERGY OF MAGNESIUM OXIDE RIAS-TR-63-15 N63-20371 20-19
CHEMICAL REGENERATION OF HOT METAL SURFACES - SUBLINATION OF THERMIONIC CONVERTERS N63-18101 16-0	
ROTATION OF LIQUIDS AND ITS INFLUENCE ON SURFACE	CLEAVAGE AND CRACK PROPAGATION DA-G400 M63-20708 21-25
FILM LAYER RSIC-20 N63-19359 18-1	
PHYSICAL CONDITIONS ON MARS - SURFACE AND	ARL-63-139 N63-22247 73-25
N63-19862 19-2	ACCOMMODATION COEFFICIENTS
HEAT FLOW AND COOLING	MS1C-52 MS3-22-608 23-23
RSIC-29 N63-19896 19-1 THERMAL CONVECTION - FLUCTUATIONS IN VELOCITY.	REACTOR TECHNOLOGY - RADIOGRAPHING WELDS - STEAM
TEMPERATURE AND LINEAR STABILITY OF HORIZONTAL	GENERATOR STABILITY - IRRADIATION OF FUELS NAD-BT-27 N63-11937 04-23
MASA-TM-X-50227 N63-20245 20-1	FOR INSPECTION NA3-11941 04-17
SURFACE BLAST EFFECTS RESEARCH N63-20453 20-1	to an analysis of the same and
ATMOSPHERE & SURFACE OF MARS - NATURE & CHEMICAL COMPOSITION	JPRS-17253 N63-12017 05-17
N63-20654 20-2	FRETTING CORROSION
SURFACE-ATTACHED THERMOCOUPLES DURING FORCED CONVECTION HEAT TRANSFER	RIA-63-1835 N63-17930 16-18
100-16889 N63-20699 21-1	POLYCRYSTALLINE MAGNESIUM OXIDE
ESTIMATES OF MUTUAL INTERFERENCE BETWEEN SURFACES MID SATELLITE COMMUNICATION SYSTEMS M85-TN-126 N63-20739 21-0	CHARGE CHARGE OF THE STATE OF T
RELATIONSHIP BETWEEN VEGETATION AND TERRAIN - SURFACE SHAPING FACTORS AND GEOMORPHOLOGICAL	CF TOPOGRAPHY TERRAIN QUANTIFICATION - SURFACE GEOMÉTRY, TOPOGRAPHY, AND MAPPING
1005-20000 21-1	APCRL-63-208 M63-13329 D8-12
DIMEDRAL HYDROFOIL FULLY VENTED SURFACE-PIERCING HEAVING AND PITCHING MOTION IN LONG CRESTED	SURFACE GEOMETRY N63-14897 11-11
IMREGULAR SEAS R-958 N63-21266 21-0	PACKAGING INFLATABLE STRUCTURES - ISUNETRIC
NONEQUILIBRIUM SURFACE POTENTIAL CALCULATIONS FOR SENICONDUCTORS N63-21293 21-0	MASA-TH-D-1918 N63-15393 12-34
ATHOSPHERIC TURBULENCE - WIND VELOCITY AND TEMPERATURE DISTRIBUTION IN GROUND SURFACE LAYER	CORRELATION OF PULSED RADAR & PHOTOGRAPHIC DATA - SURFACE GEOMETRY MASA-CR-50536 M63-18322 17-08
JPRS-21143 N63-21416 22-1	SUITABILITY OF SIMPLE CORRUGATED SURFACES FOR

SURFACE INTERACTION		SUBJECT INDEX
BROADBAND ANTENNA DESIGN	N63-23690 24-0	N63-15691 12-20
SURFACE INTERACTION RAREFIED GAS DYNAMICS - KINETI OF BOLTZMANN EQUATION, MOLECUL INTERACTIONS	C THEORY, SOLUTIONS AR BEAMS AND SURFAC N63-21557 22-1	MOIRE METHOD AND BIREFRINGENT COATING NETHODS OF MEASURING POST-ELASTIC SURFACE PROPERTIES IN METALS
GAS DYNAMICS - MOLECULAR BEAMS	AND SURFACE	GLASS SURFACE CHEMISTRY FOR GLASS FIBER REINFORCED
INTERACTIONS GAS DYNAMICS - GAS-SURFACE INT	M63-21574 22-2 ERACTIONS USING	PLASTICS - BOND PERMANENCY, STRENGTH, WETTING EFFECTS N63-20121 20-19
HODULATED ATOMIC BEAM	N63-21580 22-2	FLEXIBLE AND PREFABRICATED PAVEMENT DESIGN CAPABILITIES N63-20452 20-10
INTERACTION BETWEEN ELECTRONS SURFACES — HELICAL ELECTRON BE UNIFORM ELECTRICAL FIELD ARL-63-140	MELL-DEFINED AM INTERACTION WITH N63-23104 24-2	ON SEMICONDUCTOR SURFACES
SURFACE PRESSURE DISTRIBUTION OF COLD AIR JET AND CYLINDRICAL RINASA-TN-0-1629	00	SURFACE REFLECTANCE OF MATERIALS WITH OPTICAL PROPERTIES IN VACUUM ULTRAVIOLET - ALUMINUM N63-20854 21-23
SOLID STATE DIFFUSION BONDING	OF TUNGSTEN TO	ELECTRIC CHARGE AND SURFACE PROPERTIES OF INTACT
TEMPERATURE	N63-14892 11-1	SPRINGS I WARRY AND U. U. STREET, STREET AND WITHOUT THE
STREAMLINES ON SPHERE-COME AT SUPERSONIC FLOW FROM MEASURED	ANGLE OF ATTACK IN SURFACE PRESSURE	NASA-CR-51787 N63-22510 23-08
DISTRIBUTION AERODYNAMICS RES. REPT189	N63-15176 11-1	SURFACES WITH CONTINUOUS DISTRIBUTIONS OF
HYPERSONIC TEST STAND MODEL IN: SYSTEM - SUPPORT SYSTEM, FORCE SURFACE MEASURING SYSTEMS	SIRUMENIAITUM	CATALYCITY
ARL-63-1	N63-15613 12-1	ADSORBATE INTERACTION USING GRAPHITIZED CARBON
EXPERIMENTAL INVESTIGATION OF : LAMINAR BOUNDARY LAYER ON BLUN' HYPERSONIC FLOW	FLAT PLATE IN	JPRS-16405 N63-10577 02-07
ASD-TDR-62-792, VOL. II FLUCTUATIONS IN TURBULENT BOUND	N63-15882 13-1	SURFACE EXPLOSIONS ON SOLIDS BY HIGH-DENSITY ELECTRON BORBAROMENT
DELTA 2 AIRCRAFT - MEASUREMENT PRESSURE AND STRUCTURAL STRAIN RAC-CP-638	OF SURFACE	SCALE EFFECTS AND COMPUTER CORRELATION TECHNIQUES FOR HEAT TRANSFER WITH GAS PHASE AND SURFACE
EFFECT OF VARIATION IN REYNOLDS TEMPERATURE ON FOUR SURFACE PRI ILLUNTED CONE	ESSURES ON SLIGHTLY	EFFECTS OF ION-INDUCED DEFECTS ON SURFACE
ASD-TDR-62-360 NUCLEAR EXPLOSION - TRANSIENT (RESPONSE OF ELASTIC	REACTIONS - ADSORPTION OF DXYGEN ON GALLIUM ANTIMONIDE S-480 N63-11711 04-07
SOLID HALF-SPACE SUBJECTED TO S RAYLEIGH WAVE SURFACE PRESSURE AND LAMINAR BE	N63-17325 15-2	NITROGEN AND OXYGEN RECOMBINATION AT OXIDE SURFACES, EFFECT OF TESLA DISCHARGE ON
BLUNT FLAT PLATE IN HYPERSONIC ASD-TDR-62-792, VOL. I		NASA-TN-D-1567 N63-11742 04-13
SURFACE PRESSURE ON DELTA WINGS LEADING EDGES AND CORMERS AT HI NASA-TN-D-1959	PERSONIC SPEEDS	S-472 N63-11784 04-25
SKIN TEMPERATURE AND SURFACE PA	RESSURE OF BLUNTED ION FREE FLIGHT TES	APPROXIMATE ANALYSIS OF SIMULTANEOUS GAS-PHASE AND SURFACE ATOM RECOMBINATION FOR STAGNATION BOUNDARY LAYER TOR-169/3230-12/TN-4 N63-11880 04-11
NACA-RM-L58G21	N63-20529 20-1	SURFACE MASS TRANSFER EFFECTS IN NONREACTING
SURFACE PRESSURE DISTRIBUTION O MODELS OF PROPOSED PROJECT FIRE	SPACE VEHICLES	ARL-62-396 N63-12025 05-11
	ARIETY OF SURFACES	NONEQUILIBRIUM-DISSOCIATED STAGNATION POINT BOUNDARY LAYERS WITH ARBITRARY SURFACE CATALYCITY - GENERAL RESEARCH ATN-63/9206/-3 N63-12087 05-13
SURFACE CRSR-139	N63-14087 09-2	SURFACE - SQUID PROJECT
GLASS SURFACE CHEMISTRY FOR GLA PLASTICS	N63-15100 11-1	
SURFACE DEFECTS OF IONIC CRYSTA WAL-TR-832/1-5	N63-15313 12-1	STUDIES OF SURFACE CATALYZED REACTIONS
GLOBAL PROPERTY OF MINIMAL SURF HIGH CONNECTIVITY - RIEMANN SUR	ACES - SURFACES OF	TRAVELING WAVE TUBES, CRYSTAL LAMPS, CERAMIC WINDOWS, MAGNETS, SECONDARY EMISSION FROM TUNGSTER

-33

CED

-10

-25

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-07

-23 ES

-13

-07

-13

AND

-11

-13

D -21

-07

TEN

	CONCERN FIFTOR		
SURFACE BOMBARDMENT,	CRYSTAL FIELDS, (14414	10-01
SECONDARY EMISSION FOR BOMBARDED BY H, HE, 10NS	DOW CLEAN TIMESTER	. CHOCAL	
SECONDAKI EN133104 L	WE D AD THE	BOCTT	THE
BUMBARUEU BY HE HE .	TO NE UY ARE E RE	L 602111	AE
IONS	N63-1	14420	10-23
			7.21
MOLECULAR FLUX DISTR GAS FLOW AND KINETIC INTERACTIONS AND COL	CALIDA UN SAMCE S	SINULATO	JK -
GAS FLUM AND KINETIC	STORA OF MOLECOFF	-SURFAC	.6
INTERACTIONS AND COL	LISION RATES	PLANT PROPERTY.	March 201
AEDC-TDR-63-88	N63-1	14722	11-10
SECURITION CONTRACTOR	- 100 was 100 for		
EJECTION OF ELECTRON	FROM SURFACE OF	TUNGST	EN
BY LOW ENERGY ION, H	ELIUM, HYDROGEN,	ITROGE	
AND DXYGEN			
R-161	N63-1	15745	12-25
		THEF	
ENERGY AND IMPULSE E	KCHANGES OF GAS MO	DLECULES	SON
SOLID AND LIQUID SUR	FACES		
DVL-251	N63-1	15813	13-11
WORK FUNCTION CHANGE	S OF METALS AND SE	ENICONDI	UCTORS
PRODUCED BY CHEMISOR	PTION ON SURFACES	WITH	
DIFFERENT TYPES OF A	SORPTION SITES		
NASA-CR-50027		16721	14-23
18 1 H 1 K 3 S T 3 G 1 A S T			200
CHEMICALLY FROZEN BO	UNDARY LAYER WITH	SURFACE	Eller
REACTION BEHIND STROP	NG MOVING SHOCK	0.53	
TDR-169/3230-12/TN-3	N63-1	17677	16-11
	3128	TAKE 20	8112
EFFECTS OF ION-INDUC	ED DEFECTS ON SURE	FACE	
SEACTIONS - SPUTTERI	MG & ADSORPTION OF	GALLE	124
REACTIONS - SPUTTERING	WILLIA SURFACE CONDI	CTIVITY	
5-545	NA 3-1	19055	18-09
3-343	103	. ,033	100,
TRANSITION FROM SURF	ACE- TO DESCRIPTION.	CONTROL	4 50
PROCESS DURING HYDRO	CEN-ATON DECOMBING	TION -	SOUTO
PROJECT	JEN-ATON RECONDING	ATTOM -	24010
SRI-TR-17-P	M4.2-1	19340	18-11
2KI-IK-II-E	1463-1	19340	10-11
SURFACE RE-EMISSION	AU TH EDEC MOLECI		. 34
SUNTACE ME-ENISSION	N63-2	23.575	22-24
A STATE OF THE STA	1403-	1313	26-24
REFLECTION OF MODULA	TER HELTIM AND DE	ATED TANK	LLCA .
MOLECULAR BEAMS FROM		JIERIUM	
MULECULAR BEAMS FROM		21576	22.11
	NO3-4	11210	25-11
CAS DANAMACE BENON	VINC DIEVE IN STH	w or	
GAS DYNAMICS - REVOLUTION BETWEEN	VING UISKS IN STU	TACE	
INTERACTION BETWEEN	IDLECULES AND SURI	ACE	
	No.3-	21578	22-25
			-
THEORY OF MASS TRANS			
SURFACE REACTIONS &	SASEOUS DIFFUSION	IN DES	
ROCKET NOZZLES	N63-1	22652	23-02
		176623	
FACE ROUGHNESS	34.6		
LUNAR SURFACES - RAD	AR AND PHOTOGRAPH	IC	
DATA - SURFACE ROUGH		m Altida	real at
PR-39	N63-1	12043	05-05
EFFECT OF ROUGHNESS	IN SKIN DRAG IN FO	JLL SCAL	LE
FLIGHT TEST	DITTERDITE BIANC		
NASA-TH-X-36	N63-1	12977	07-04
MARINE STREET	TA PARA PARA	15-586-	
LUBRICANT RELAXATION	EFFECTS IN OIL FI	ILM THI	CKNESS
BETWEEN INVOLUTE GEAR VISCOELASTICITY, SUR	R TEETH - SQUEEZE	FILMS,	
AROD-2458-41		13487	
THE WHAT SEE THAT SO SO		RE-5354	410.0
COMPARISON OF RADAR	BACK SCATTERING HE	ASUREM	ENTS
FROM MOON-LIKE SURFA	CES TO LUNAR SCATT	TERING !	ATAC
SURFACE ROUGHNESS -	DIELECTRIC CONSTAN	IT ESTI	MATES
NASA-CR-50304			17-08
WEST THEFT THE WAR	XXXXXX SYMPHINE	DEBTON	
EFFECT OF FABRICATIO	TYPE SURFACE ROL	JGHNESS	ON
BOUNDARY LAYER TRANS	TION - TESTS ON	DELVE	ARK STA
CYLINDER MODELS AT M.	CH 1-61 TO 2-01	1-CNA50	SAM!
NASA-TH-D-1933	NA3-1	18666	17-03
WINDS TRANSPORTER	THERAD AND STREET	43920043	283
FACE TEMPERATURE	OUR RESIDENCE OF SHIPE	3478343	1842
DETERMINATION OF SUR	FACE TEMPERATURES	HSTNE	ZAMO
ENISSIONS FROM THIN	PHOTOLIMINE SCENT	COATING	
THE PARTY OF THE P	MA3-	11307	07-77

THRARED FLUX & SURFACE TEMPERATURE DETERMINATIONS FAON TIROS RADIOMETER HEASUREMENTS N69-11801 04-21

TEMPERATURE TRANSDUCER FOR IN-FLIGHT HONITORING

OF SKIN PANEL SURFACE TEMPERATURES - EFFECTS OF INSULATION AND VIBRATION ON ACCURACY ENERGY EXCHANGE BETWEEN COLD GAS MOLECULES AND HOT TUNGSTEN SURFACE - PRESSURE DEPENDENCE OF MOLECULE ADSORPTION AND DESORPTION N63-12420 06-23 SURFACE TEMPERATURE IN ROLLING-SLIDING CONTACTS
LUBRICATED WITH ELASTONYORODYNAMIC LUBRICATION
HTI-63TR3

N63-13750 06-17 AXISYMMETRIC FREE-CONVECTION HEAT TRANSFER ALONG A VERTICAL THIN CYLINDER WITH CONSTANT SURFACE N63-14076 09-13 RADIATION, RECESSION AND TEMPERATURE OF PLASTIC AND COMPOSITE MATERIAL SURFACES EFFECT OF GAS AND SURFACE TEMPERATURE ON CRYOPUMPING OF NITROGEN AND ARGON AEDC-TOR-63-51 N63-1603 N63-16033 13-11 EFFECT OF VARIATION IN REVNOLDS NUMBER AND SURFACE TEMPERATURE ON FOUR SURFACE PRESSURES ON SLIGHTLY BLUNTED CONE ASD-TDR-62-360 ULTRAVIOLET RADIOMETER FOR AUTOMATIC MEASUREMENTS OF SURFACE TEMPERATURES IN 1000 TO 2500-DEG C REGION SHOCK WAVE GENERATOR - HEAT TRANSFER AND PRESSURE DISTRIBUTION - SURFACE TEMPERATURE AND REENTRY TRAJECTORY P18AL-437 TRANSITION REVERSAL - EFFECT OF SURFACE
TEMPERATURE ON LAMINAR BOUNDARY LAYER STABILITY
AND TRANSITION N63-17382 15-TEMPERATURE DISTRIBUTION IN EXTERIOR REGION OF SPHERICAL CAVITY WITH CONSTANT SURFACE TEMPERATURE PIBAL-665 N63-20475 20-13 PASSIVE SURFACE TEMPERATURE TELEMETRY FOR GUN-LAUNCHED FREE FLIGHT MISSILE MODELS NOLTR-62-75 N63-21289 21-08 AVERAGE SURFACE TEMPERATURE ON MARS ESTIMATED FROM RADIATIVE EQUILIBRIUM SURFACE TENSION VAPORIZATION, SURFACE TENSION, AND VISCOSTTY STUDIES OF REFRACTORY METALS COMPARISON OF SURFACE TENSION MEASUREMENT METHODS FOR POLYPHENYLS - HORIZONTAL CAPILLARY, BUBBLE PRESSURE METHOD AND LENARD WIRE METHOD EUR-209.0 09-23 MECHANICAL TREATMENT AND ROTOKIMETIC EFFECT OF SURFACE TENSION OF GLYCOL RSIC-22 ROTOKINETIC EFFECT ON SURFACE TENSION OF BENZENE AND WATER AT LOW, ATHOSPHERIC, AND ELEVATED TEMPERATURES RSIC-21 N63-19316 10-07 SURFACE TENSION HEASUREMENTS - URANIUM AND COPPER HM-78132 SURFACE VEHICLE
PERFORMANCE COEFFICIENTS FOR POWERED WHEELS IN
SAND - SOIL VEHICLE ANALYSIS NA3-13919 13-10 DYNAMIC SIMULATION STUDIES OF SHOCK AND VIDRATION
EFFECTS ON SURFACE VEHICLES - STRUCTURAL RESPONSE
TO IMPACT FORCES N63-16600 14-3: METHODS FOR PREDICTING BRITTLE FRACTURE TEMPERATURES OF ROLLED ARMOR STEEL - SURFACE

SURVIVAL OF EXTREME VERTICAL IMPACT IN SEATED POSITION

SURPACE WAYE	SUBSECT THOEX
VEHICLE DESIGN APPLICATIONS - STRUCTURAL DYNAMICS N63-16609 14-18	DISPLAYS FOR COMBAT SURVEILLANCE - VISUAL PERCEPTION N63-19254 18-61
SURFACE VEHICLE MOBILITY & TRAFFICABILITY RESEARCH N63-20451 20-12	VISUAL PROBLEMS OF BATTLEFIELD INFORMATION COLLECTION FROM LOW FLYING AERIAL SURVEILLANCE AIRCRAFT N63-19257 18-04
SURFACE WAVE LEAST SQUARES METHOD OF CALCULATING SURFACE WAVE DISPERSION IN THE CRUST-MANTLE STRUCTURE OF THE EARTH	RADIO PHYSICS - RADIO PROPAGATION AND ANTENNAS, AND TECHNIQUES OF COMMUNICATION AND SURVEILLANCE N63-20378 20-00
AFCRL-63-219 N63-12732 06-12	SURVEILLANCE TECHNIQUES, RADIO PROPAGATION AND
SURFACE WAVE EXCITATION - PART I, LAUNCHING THE DOMINANT DIPOLE MODE INTO A CIRCULAR CROSS SECTION DIELECTRIC ROD - PART II, SOMMERFIELD WAVE AFCRI-62-173 N63-14659 10-25	PLASMA PHYSICS - RESEARCH AND DEVELOPMENT REPORT IN RADIO PHYSICS N63-21297 21-09
AFCRL-62-173 N63-14659 10-25 SURFACE WAVE PROPAGATION IN ANISOTROPIC DIELECTRIC SLABS - ELECTROMAGNETIC FIELDS OF EXCITED PLASMAS	THEORY OF MAGNETOTELLURIC PROFILING — GEOLOGICAL SURVEYING FTD-TT-62-1062/16284 N63-10343 Q1-15
PIBMRI-1151-63 N63-17333 15-24 SHIP MODEL MAYE RESISTANCE DATA USING FREE SURFACE	METEOROLOGICAL AND MAGNETIC OBSERVATIONS IN SPAIN, 1957-1958 N63-15428 12-21
AND CONCOMITANT SURFACE WAVES GENERATED BY HULL ON VISCOUS DRAG N63-18725 17-14	COMPARISON OF SATELLITE MEASUREMENTS, LUNAR, AND GEODETIC SURVEYING METHODS FOR DETERMINING
FREE SURFACE FLOW - GRAVITY WAVES, JETS AND	GEODETIC PARAMETERS N63-17110 15-12
CAVITIES NA-63-5 N63-19212 18-11	OCCULTATION EQUATIONS FOR GEODETIC SURVEYING AND ERROR ANALYSIS
THEORY OF MAGNETOHYDRODYNAMIC FREE SURFACE WAYES	ANS-TR-46
MEASUREMENT OF ATTENUATION FACTOR AND RELATIVE FIELD STRENGTH OF SKY AND SURFACE WAVES FOR GROUND	GEODETIC AZIMUTH SOLUTIONS BY PHOTOGRAMMETRY AFCRL-63-619 N63-19550 19-12
PENETRATION AND SIGNAL TRANSMISSION AFCRL-63-382 N63-23405 24-09	PARAMETRIC FORMULA FOR GEODESIC CURVES AND DISTANCES ON SLIGHTLY OBLATE EARTH
SURFACTANT	AFCRL-63-485 N63-19720 19-12
INFLUENCE OF MYDROPHILE-LIPOPHILE BALANCE OF NONIONIC ADDITIVE ON DETERGENCY OF ALKALINE CLEANERS CONTAINING AN ANIONIC SURFACTANT	SURVEYING TECHNIQUES FOR MEASURING AXIAL DISTANCE BETHEEN TWO ANTENNAS RADC-RAL-TM-63-11 N63-22223 23-01
CCL-137 N63-12374 06-07	MAGNETIC SURVEY DATA AVAILABLE PRIOR TO IQSY WORLD
SURFACTANT AND MOLECULAR SIEVE EVALUATION FOR IMPROVED DEOXYGENATION PACKET FOR CORROSION	MAGNETIC SURVEY NASA-TH-X-50956 N63-23024 24-12
PREVENTION RIA-62-3441 N63-13117 07-17 SUBGE	SURVEYOR 18M 7090 COMPUTER PROGRAMS FOR SURVEYORS - GEODES
BASE SURGE CLOUD RADIUS AND HEIGHT AS FUNCTION OF TIME FOR PRE-BUGGY SERIES OF HIGH EXPLOSIVE	SURVEYOR PROJECT
SHOTS - PLOWSHARE PROGRAM PNE-304 N63-23569 24-21	COMPATIBILITY OF MATERIALS AND COMPONENTS WITH HEAT AND ETHYLENE OXIDE-FREON - SURVEYOR SPACECRAFT PROGRAM
SURGERY PROTECTION AGAINST TRAUMATIC SHOCK BY PRETREATMENT	RS-277 N63-10078 01-19
WITH ADRENOCORTICOTROPHIC HORMONE - RAT SURGERY SAM-TDR-63-10 N63-19096 18-16	SURVEYOR SPACECRAFT, COMMAND, DATA HANDLING ARS PAPER-2692-62 N63-11275 03-0
SURVEILLANCE CF RECOMMAISSANCE CF SPACE SURVEILLANCE SYSTEM	SPACE PROGRAMS SUMMARY NO. 37-18 - VOL 6, SEPT TO DEC 1962 - SPACE EXPLORATION PROGRAMS & SPACE SCIENCES
GAS CELL PHASE SHIFTER USED AS OPTICAL SURVEILLANCE DEVICE	JPL-SPS-37-18, VOL. VI N63-12341 05-2
E05-2230-Q-2 N63-10512 01-15	DESIGN AND CONSTRUCTION OF LUNAR SEISMOGRAPH USED AS BACK-UP INSTRUMENT FOR SURVEYOR FLIGHT -
SPACE SURVEILLANCE SYSTEM EVALUATION BY A METHOD OF PHOTOGRANMETRIC RESECTION RADC-TOR-62-442 N63-11356 03-20	SURVEYOR PROJECT NASA-CR-50245 N63-18290 17-1
COMERENT OPTICAL SURVEILLANCE DEVICES E05-2230-Q-3 N63-11989 05-23	UNMANNED LUNAR EXPLORATION SPACECRAFT - RANGER, SURVEYOR, AND PROSPECTOR PROJECTS NASA-TM-X-50135 N63-18863 18-2
RADIO PHYSICS - RESEARCH AND DEVELOPMENT N63-14658 10-08	CENTAUR/SURVEYOR DIRECT ASCENT LUNAR CONIC TRAJECTORIES, 1964-1967
RADIO PHYSICS - RADIO PROPAGATION, PLASMA PHYSICS,	NASA-CR-50730 N63-19940 . 19-2
COMMUNICATIONS, SURVEILLANCE, AND ANTENNAS AFESD-TDR-62-116 N63-15973 13-08	GAS CHROMATOGRAPH FOR SURVEYOR LUNAR PROJECT - SPECIFICATIONS AND OPERATION
VISUAL PROBLEMS OF ARMED FORCES & SPACE TRAVEL -	NASA-CR-51007
RECONNAISSANCE, INTERPRETATION, AND BATTLEFIELD SURVEILLANCE RELATIONS TO HUMAN VISUAL PERCEPTION N63-19241 18-14	SURVIVAL CF LIFE SUPPORT SYSTEM DEVELOPMENT OF INFLATABLE PERSONAL EQUIPMENT FOR
1 PC 2	ASTRONAUT SURVIVAL AT SEA ASTRONAUT ASTRONAUT
MILITARY INTELLIGENCE AND COMBAT SURVEILLANCE - VISUAL PERCEPTION NO. NO. NO. 19253 18-01	NASA-TN-D-1083 N63-11740 04-1
SUBSTRUCT OF SOLES SUBSTRUCT OF SUBSTRUCT OF SUBSTRUCT	SURVIVAL OF EXTREME VERTICAL IMPACT IN SEATED

HUHAN OPERATOR PROBLEMS USING COMPLEX VISUAL

18-04

ANCE 20-01

PORT 21-09

O1-15 SPAIN, 12-21 AND 15-12 AND 16-12

19-12 ANCE 23-01 MORLO 24-12 ODESY 16-12 H 01-19 03-01 10 15-29 SED 7-15 . 6-29

9-29

2-26

OR 4-16

CARI-62-19 N63-12249 05-16	WING LEADING EDGE
SURVIVAL FACTORS UNDER PROLONGED HYPOTHERMIA - HEART RATE AMRL-TDR-62-130 N63-13006 07-16	LOW FREQUENCY SWEET SOUNDING AFCRL-63-290
ARCTIC SURVIVAL RATIONS - DIURNAL VARIATIONS OF LIVER GLYCOGEN CONTENT AND ENZYME ACTIVITIES IN	OPTIMAL MODE SWITCH
RATS FED PENNICAN MEALS AAL-TDR-62-54	ED-HD BIEFERSON
BAILOUT SURVIVAL KIT FOR KC-135 AND U-2 AIRCRAFT AAL-TN-63-4 18-16	ELECTRON BEAM HEAT MATERIALS TESTING SOURCE, BEAM SWEEP
EVALUATION OF POCKET PEN SURVIVAL FLARES AAL-TN-63-3 N63-19503 19-09	AERODYNAMIC CHARAC CONFIGURATION WITH
SUSCEPTIBILITY 3 MAGNETIC SUSCEPTIBILITY	SYSTEM & SHEPT BAC
SUSIE REACTOR RADIATION STABILITY OF ORGANIC REACTOR COOLANTS RADIOLYSIS YIELD OF POLYPHENYLS IRRADIATED IN NEUTRON-RICH SPECTRUM OF THE SUSIE REACTOR YIO-16999 04-23	SUBSONIC, STATIC & DELTA WING WITH LE B4-DEG NASA-TN-D-1822
RADIOLYSIS OF DRGANIC FLUIDS IN SUSIE REACTOR TID-18195 N63-19286 18-07	FREQUENCY SWEEP IN RECORDER FOR USE W ARA WIND TUNNEL NO
SUSPENSION SA HANSEN SUSPENSION AND TO YOU'RE MOST ASSERTED.	FLIGHT TESTING OF
ANNOTATED BIBLIOGRAPHY - MAGNETIC SUSPENSION OF	SHEEPBACK ADMIA ADDING
WIND TUNNEL MODELS AEDC-TDR-63-20 AMOSM 32 JUN 24 N63-12750 06-02	INFLUENCE OF LEADI DEVELOPMENT OF LEAD
MAGNETIC AND ELECTRIC FORCES FOR ROTATING SHAFT SUSPENSION	WING SURFACE DIL F
EMI-4454-111-63U #31186 #0 N63-16306 13-17	ABELIAN FUNCTION A POTENTIAL FLOW AND
DESIGN OF SUSPENSION SYSTEMS TO REDUCE EFFECTS OF HIGH INTENSITY SHOCK ENVIRONMENT N63-16771 14-10	POTENTIAL FLOW AND COMPRESSOR BLADE-T ONERA-109/1962/
PREDICTIONS OF PHYSICAL PROPERTIES OF INORGANIC FLUID/INDRGANIC SOLID GREASES FROM INORGANIC SOLID-ORGANIC LIQUID DISPERSION STUDIES No.3-17843 16-17	AERODYNAMIC CHARAC CONFIGURATIONS MIT THICKNESS DISTRIBU NASA-TH-X-501
SWAGING PERSECULAR TOP TO STATE TO THE SWAGE HOLD HOLD HOLD HOLD HOLD HOLD HOLD HOLD	SHEEPBACK ANGLE
SWAGING OF URANIUM DIOXIDE EUR-117.E N63-12644 06-17	SUBSONIC, STATIC & DELTA WING WITH LE
MAGNETIC PULSE SWAGING - ELIMINATING FUEL- CLADDING ANNULUS IN FUEL RODS OF URANIUM	NASA-TN-D-1822
DIOXIDE PELLETS NAA-SR-8263 N63-22675 23-26	SHELLING VISCOELASTIC PROPE THE TRANSITION REG
ABSOLUTE INTENSITY OF CARBON MOLECULE 0-0 SWAN	ONR-TR-RLT-56
BAND - EMISSION AND ABSORPTION MEASUREMENTS UCRL-10620 N63-17023 15-23	SPACE BIOLOGY
SNEATING CF PHYSIOLOGY	SMEPT WING LONGITUDINAL AEROD
PHYSIOLOGY - THERMAL STRESS IN HUMAN BODY, SWEATING	SUBSONIC SPEEDS OF NOSE DEFLECTION CO
AMRL-TDR-62-131 N63-11922 04-16	NASA-TN-D-1482
CAPSULAR METHOD FOR MEASURING SMEATING AND BLOOD FLOW IN SMALL SKIN AREA AMRL-TDR-63-16 N63-15355 12-16	TRANSONIC FLUTTER CANTILEVER WINGS W NASA-TN-D-1594
SHEEP, SWEEPING VARIABLE SWEEP WING V/STOL AIRCRAFT DESIGN — PART I, AERODYNAMIC DESIGN ASPECTS RAC-1012 07-04	TRACKING PERFORMAN RADAR FIRE-CONTROL NACA-RM-ASTJOL
BLUNTED RIGHT TRIANGULAR PYRAMIDAL LIFTING REENTRY CONFIGURATION USING VARIABLE-SHEEP MING PANELS - LONGITUDINAL AERODYNAMICS AT MACH 0.4 TO 1.0 NASA-TN-D-1518 09-02	SIMULATED FLIGHT T BONBER AND FIGHTER TIP NAGA-RH-L55J24
PRESSURE DISTRIBUTIONS ON 3 RIGIO WINGS SINULATING PARAMINGS WITH VARIED CANOPY CURVATURE AND LEADING EDGE SWEEP AT MACH 2-29 TO 4-65	EFFECTS OF WING-CR EXTENSIONS & HORIZ LONGITUDINAL STABI NASA-TH-X-92
NASA-TN-D-1618 2567 1212 14 30 3041 N63-14252 10-03	EFFECTS OF THIST,

STABILITY AND CONTROL OF FLAT SURFACE WING-FUSELAGE COMBINATION AT SUBSONIC SPEED - EFFECT OF

NING LEADING EDGE SWEEPBACK RASH-14755 11-02
LOW PREQUENCY SWEEP POLARIMETER FOR IONOSPHERIC SOUNDING AFCRL-63-200 1441048400 3184877 NA3-149781 11-15
OPTIMAL MODE SWITCHING IN CONTROL SYSTEMS 100 Jay
NA3-15629 12-09 ELECTRON BEAM HEAT SOURCE FOR HIGH TEMPERATURE MATERIALS TESTING FACILITY - ELECTRON GUM, POMER SOURCE, BEAM SMEEP ANGLE MODIFICATIONS NA3-16067 13-10
AERODYNAMIC CHARACTERISTICS OF VARIABLE-MING-SWEEP CONFIGURATION MITH SPOILER-SLOT-DEFLECTOR CONTROL SYSTEM & SMEPT BACK OUTER MING PANELS MASA-TM-X-273 N63-17450 15-03
SUBSONIC, STATIC & DYNAMIC STABILITY OF PLAT PLATE DELTA WING WITH LEADING EDGE SWEEP ANGLE OF 70 TO B4-DEG NASA-TN-D-1822 N63-18129 16-03
FREQUENCY SMEEP IN PHASE COMPONENT RESPONSE RECORDER FOR USE WITH HIGH SPEED FLUTTER MODELS ARA MIND TUNNEL NOTE-52 No5-19033 18-06
FLIGHT TESTING OF VARIABLE SWEEP-WING AIRCRAFT M63-21373 22-02
SMEEPBACK INFLUENCE OF LEADING EDGE RADIUS AND SWEEPBACK ON DEVELOPMENT OF LEADING EDGE VORTICES BY AMALYZING WING SURFACE DIL FLOW PATTERNS CP-583 NB3-11925 04-03
ABELIAN FUNCTION AND AERODYNAMIC APPLICATIONS - POTENTIAL FLOW AND SWEEPBACK FIN, SLENDER BODIES, COMPRESSOR BLADE-TURBINE BUCKET COUPLING ONERA-109/1962/ N63-13528 08-11
AERODYNAMIC CHARACTERISTICS OF BLUNT DELTA CONFIGURATIONS WITH 75 DEG SWEEPRACK AND VARYING THICKNESS DISTRIBUTIONS AT SUBSONIC SPEEDS NASA-TM-X-581 N63-13914 09-32
SMEEPBACK ANGLE SUBSONIC, STATIC & DYNAMIC STABILITY OF FLAT PLATE DELTA WING WITH LEADING EDGE SMEEP ANGLE OF 7D TO 84-DEG NASA-TN-D-1822 N63-18129 16-03
SMELLING VISCOELASTIC PROPERTIES OF PRESMOLLEN POLYMERS IN THE TRANSITION REGION ONR-TR-RLT-56 N63-12662 06-19
DEVELOPMENT OF HIGH-ALTITUDE TISSUE SWELLING - SPACE BIOLOGY N63-21535 22-16
SWEPT WING LONGITUDINAL AERODYNAMIC CHARACTERISTICS AT LOW SUBSONIC SPEEDS OF A HIGHLY SWEPT DELTA WING WITH NOSE DEFLECTION CONTROL
NASA-TN-D-1462 N63-10199 01-03 TRANSONIC FLUTTER CHARACTERISTICS OF THIN CANTILEVER WINGS WITH TAPER RATIOS OF 0.6 NASA-TN-D-1594 N63-12480 06-03
TRACKING PERFORMANCE OF F-860 AIRCRAFT WITH RADAR FIRE-CONTROL SYSTEM NACA-RH-A57JOI N63-12503 Q6-Q4
SINULATED FLIGHT TESTS OF ELASTIC SMEPT-WING BONBER AND FIGHTER MODEL COUPLED WING TIP TO WING TIP NACA-RM-L55J24 M63-12520 GG-02
EFFECTS OF WING-CRANK, LEADING-EDGE CHORD EXTENSIONS & HORIZONTAL-TAIL HEIGHT ON LONGITUDINAL STABILITY OF SHEPT-WING MODELS NASA-TH-X-92 NG9-12980 07-02
EFFECTS OF TWIST, CAMBER AND THICKNESS ON AERODYNAMIC FEATURES OF 75-DEG SWEPT ARROW WING NASA-TH-X-138 NASA-TH-X-138

LOW SPEED AERODYNAMIC CHARACTERISTICS OF SWEPT-WING AIRCRAFT WITH BLOWING FLAPS AND LEADING-EDGE NACA-RH-A57D11 N63-13107 07-04 OFF-DESIGN AERODYNAMIC CHARACTERISTICS OF SWEPT ARROW WINGS WITH TWIST AND CAMBER AT SUPERSONIC VELOCITIES NASA-TN-D-1630 SUPERSONIC STORE INTERFERENCE - 1, SWEPT-WING HEAVY BOMBER WITH LARGE STORES - LIFT & DRAG AT MACH 1.61 NACA-RH-LSSAL3A N63-13860 FREE FLIGHT TESTS OF 45-DEG SWEPT WINGS OF 3.15 ASPECT RATIO AND 0.54 TAPER RATIO TO MEASURE WING DAMPING AND POSSIBLE TRANSONIC FLUTTER EFFECT OF LARGE STORE /NACELLE/ ON A SWEPT-WING HEAVY BOMBER - LATERAL FORCE AND PITCHING MOMENTS NACA-RH-L55E26A M63-13868 09-02 EFFECT OF STORES ON A SWEPT-WING HEAVY BOMBER NACA-RM-L55LO8 N63-13869 09-02 ORIGIN OF SUPERSONIC STORE INTERFERENCE FROM MEASUREMENTS OF INDIVIDUAL FORCES - SWEPT-WING FIGHTER-BOMBER WITH LARGE & SMALL STORES NACA-8M-L 55H01 N63-13873 09-02 LIFT AND DRAG OF SMEPT-WING FIGHTER AIRCRAFT AT TRANSONIC AND SUPERSONIC SPEEDS
NASA-MEMO-10-1-58H
N63-13885
09-04 AERODYNAMIC LOAD AND FLUTTER ON SWEPT AND UNSWEPT WINGS AT VARIOUS SPEEDS RRI-X-HT-AZAM NA3-13897 FACTORS AFFECTING FLUTTER CHARACTERISTICS CALCULATED FOR TWO SWEPT WINGS N63-16295 13-32 BOUNDARY-LAYER TRANSITION ON SWEPT WINGS AT MACH AEDC-TDR-63-109 N63-19510 19-11 LOW-SPEED LONGITUDINAL STATIC STABILITY & CONTROL CHARACTERISTICS OF AIRCRAFT WITH SWEPT WINGS & TAIL SURFACES OUTBOARD OF WING TIPS NASA-MEMO-6-11-59L N63-20484 20-02 TRANSOMIC WIND TUNNEL INVESTIGATION OF PRESSURES AND HINGE MOMENTS ON SWEPTBACK T-MOUNTED HORIZONTAL AIRCRAFT TAIL NASA-TH-X-61 N63-12978 07-03 SWEPTBACK WIN PRESSURE DISTRIBUTION AT SUPERSONIC SPEED OF SMEPTBACK WING AIRCRAFT MODEL AT COMBINED ANGLES OF ATTACK AND SIDESLIP - TABULATED DATA NASA-MENO-10-15-58L M63-12497 06-EFFECTS OF DEFLECTED INBOARD AILERONS ON WING LOADS OF 45-DEG SWEPT-BACK WING AT TRANSONIC SPEEDS NACA-RH-L58E12 07-03 N63-12911 AERODYNAMIC CHARACTERISTICS OF LATERAL CONTROL WITH ROTATABLE AIRFOILS AND SWEPTBACK WIN NASA-MEND-6-9-59A N63-13216 FLUTTER OF 45-DEG SWEPTBACK WING IN AIR AND FREON-12 IN TRANSONIC WIND TUNNEL N63-13261 07-33 NASA-TN-D-1616 FLOW FIELD AND BURSTING PHENOMENON OF SWEPTBACK WING LEADING EDGE VORTICES ARC -R6M-3282 08-11 SUBSONIC AND SUPERSONIC WIND TUNNEL STUDY OF LOW ASPECT RATIO SWEPTBACK WING TAILLESS FIGHTER AIRCRAFT HODEL/STABILITY AND CONTROL AERODYNAMIC HEATING OF SWEPTBACK WING LEADING EDGE

SWITCH

FREE FLIGHT TEST OF TAILLESS MISSILE CONFIGURATION WITH 45-DEG SWEPTBACK WING OF ASPECT RATIO 4 - STABILITY AT TRANSONIC SPEEDS NACA-RM-L56E11 STABILITY AND CONTROL OF FLAT SURFACE WING-FUSELAGE COMBINATION AT SUBSONIC SPEED - EFFECT OF WING LEADING EDGE SWEEPBACK NASA-NEMO-3-5-59A N63-14755 11-02 WIND TUNNEL TEST OF GROUND EFFECT OF 35-DEG SWEPT-BACK WING JET TRANSPORT EQUIPPED MITH BOUNDARY LAYER CONTROL, TRAILING & LEADING EDGE FLAPS NASA-TN-D-1884 N63-15922 1 AERODYNAMIC CHARACTERISTICS OF VARIABLE-WING-SWEEP CONFIGURATION WITH SPOILER-SLOT-DEFLECTOR CONTROL
SYSTEM & SWEPT BACK OUTER WING PANELS HUMAN ENGINEERING, AIRCRAFT COCKPIT VISUAL DISPLAYS - FACTORS AFFECTING CONTROL ACTIVIATION -TOGGLE SWITCH DENSITY APPLICATIONS OF COMPLEMENTARY DECODING SYSTEMS WITH DIRECTIONAL ELEMENTS, SWITCHES AND RELAYS STANDARDIZATION STUDY OF COAXIAL SWITCHES FOUR LAYER DIODE AS PULSE MODULATOR SHITCH N63-13232 HIGH PULSE RATE COUNTING CIRCUITRY - TUNNEL DIDDE FAST DISCRIMINATOR SWITCH 100-16823 N63-13628 INCREASING EFFICIENCY AND MINIMIZING WEIGHT OF AC-DC POWER CONVERTERS N63-14166 09-06 DC POWER CONVERTERS ELECTRONIC SWITCHES WITH COMPLEMENTARY TRANSISTORS - APPLICATION, CIRCUITS, EFFECT OF TEMPERATURE, CHARACTERISTICS N63-15108 1 HIGH POWER SOLID STATE SWITCH RADC-TDR-63-207 M63-17929 HIGH POWER L-BAND RADIO FREQUENCY SWITCH DESIGN -RADC-TDR-63-265 N63-18785 LARGE ELECTRIC SWITCHGEAR N63-22294 SWITCHING INDUCTIVE-ENERGY-STORAGE APPARATUS APPLICATION OF TRANSISTORS AS LOW-LEVEL SIGNAL SWITCHES - SOLID STATE CIRCUITS RG-TR-63-16

N63-22295

SWIT

01-08

03-09

08-09

11-09

16-08

18-09

23-06

SWIT

S

T

SWIT

N63-22458 23-09

SWITCHING CRITERION FOR TIME-OPTIMAL CONTROL M63-10414 01-20 INSULATION RESEARCH - HYSTERESIS LOOP, SWITCHING OF POLYCRYSTALLINE GARNETS - FERROMAGNETISM

N63-11290 03-25 DYNAMIC SQUARENESS IN POLYCRYSTALLINE GARNETS

HYSTERESIS LOOP AND SWITCHING 03-25

INFINITELY VARIABLE FERRITE PHASE SHIFTERS USED IN HIGH SPEED CONTINUOUS BEAM SCANNING AND IN MICROWAVE POWER RECEPTION FROM SEVERAL ANTENNAS N63-14106 09-08

TREND TOWARD MINIATURIZATION OF COMPONENTS AND REPLACEMENT OF ELECTRO-MECHANICAL DEVICES WITH

DYNAMIC SWITCHING IN ONE-DIMENSIONAL ITERATIVE NETWORK - EXISTENCE OF ALGORITHMS AFCRL-63-68 N63-18204

FERRITE CORE SWITCHING MECHANISMS AND TOLERANCE

PAOBLEM IN COINCIDENT CURRENT CORE STORES - DIGITAL COMPUTER DESIGN - FERROMAGNETISM EID-60 N63-19130 18-25	SYMBOL SCHEMATIC SYMBOLS FOR FLUID AMPLIFIER CIRCUITRY N63-13407 08-11
DESIGN OF GAS MICROWAVE DUPLEXER - SMITCHING EFFICIENCY RADC-TDR-63-210 N63-20967 21-24	TV SCAN LINE AND SCAN PATTERN IN SYMBOL CONSTRUCTION ESD-TOR-63-440 N63-22531 23-09
INDUCTIVE ENERGY STORAGE, SUPERCONDUCTORS, MAGNETOHYDRODYNAMICS, TRANSDUCERS, SWITCHING E CONTROL RESEARCH IDA/HQ-63-1412 N63-22260 23-01	SYMMETRICAL BODY ROTATING BODY VACUUM MOTION APPROXIMATION - RIGID SYMMETRICAL BODY WITH SPIN RATE AND INERTIA VARIANCES
SCLID STATE CIRCUIT TECHNIQUES - DIRECT CURRENT SWITCHING DEVICES RG-TR-63-14 N63-23698 24-09	NASA-TR-R-115 TYZNETAL DISTRIBUTE NASA-14781 NASA-14-02 SYMMETRY CF ASYMMETRY CF ASYMMETRY CF ASYMMETRY
SWITCHING CIRCUITS - ANBIT METHOD, BOOLEAN POLYMOMIALS AND DIODE CIRCUITS BY MATRIX ANALYSIS PIBMRI-1043-62 N63-12642 06-09	CF AXISYMPLAY CF ISOTROPISM RADIAL DEFLECTION COMPONENTS OF THE ROTATIONALLY SYMMETRIC MOTION OF A CYLINDRICAL SHELL WAL-TR-850/13 N63-11443 03-33
FLUID AMPLIFIER TO PERFORM DIGITAL LOGIC FUNCTIONS WITH SINGLE SWITCHING ELEMENT N63-13405 08-20	UPPER AND LOWER BOUNDS FOR APSIDAL ANGLE IN MOTION OF HEAVY SYMMETRICAL TOP NO.TR-62-131
REALIZABILITY OF FUNDAMENTAL CUT-SET MATRICES OF ORIENTED GRAPMS FOR ELECTRICAL NETWORKS, SMITCHING CIRCUITS AND COMMUNICATIONS NETS	THREE-BODY PROBLEM - A SYMMETRIC REPRESENTATION - MOTION IN A PLANE
R-143 M63-14554 10-09 MUCLEAR REACTOR INSTRUMENTATION AND CONTROL. SWITCHING CIRCUIT, AND PROBE-TYPE TEMPERATURE	SYMMETRY PATTERN RECOGNITION SYSTEM II - SYSTEM BASED UPON INHERENT SYMMETRY OF TYPICAL SIGNAL DUE TO SATELLITE PASS NRL-5847 NRS-13005 07-08
SENSORS GEMP-76 N63-16355 14-06 WAVEGUIDE SWITCHING CIRCUIT IN SLOTTED ANTENNA -	RELATIONSHIPS OF RELATIVE DECAYS IN CERTAIN RESONANCES IN THEORIES WITH BROKEN SYMMETRY NYO-10260 M63-14326 10-23
X-BAND AND S-BAND AFCRL-63-138 N63-17487 16-09 SWITCHING CIRCUIT DESIGN FOR DIGITAL COMPUTERS -	SOLID STATE AND MOLECULAR THEORY, BENZENE, METHANE SCATTERING, SYMMETRY, ENERGY BANDS, CRYSTALLINE STRUCTURES, LATTICE VIBRATION & ELECTRONIC EFFECTS
REALIZATIONS OF ALGORITHMS, CASCADE CIRCUITS RM-3269-PR SGLID STATE TRANSMITTING, RECEIVING, AND RADIO	N63-14482 10-25 NEUTRON-INDUCED NUCLEAR FISSION SYMMETRY IN URANIUM-235 AT INDIVIDUAL RESONANCES
FREQUENCY SMITCHING N63-20176 20-09 THRESHOLD LOGIC AND RELIABILITY OF SMITCHING NETWORKS AFCRI-63-185 N63-20409 20-09	PNE-114F N63-15381 12-23 EFFECT OF SYMMETRY IN PERIODIC STRUCTURES - MICRONAVE ANTENNA PIBMRI-1113-63 N63-16457 14-24
HIGH CURRENT LOW VOLTAGE DC TO AC CONVERSION - HALL EFFECT, SUPERCONDUCTING SWITCH, & EFFICIENCY OF OPERATION NASA-CR-51213 N63-21367 22-09	THEORY OF PERTURBATION EXPANSION OF MASSES AND ELECTROMAGNETIC QUANTITIES WITHIN UNITARY SYMMETRY M63-16523 14-24
SYNCHRONOUS & ASYNCHRONOUS SEQUENTIAL SMITCHING CIRCUITS	SYMMETRIZATION OF MODEL C STELLARATOR BY CALCULATING EFFECT OF COIL DISPLACEMENT ON PLASMA FLUX CLOSURE MATT-192 N63-17398 15-24
HIGH SPEED, FOUR-WIRE CIRCUIT SWITCHING EQUIPMENT FOR UNIVERSAL USE IN TACTICAL AND FIXED PLANT ENVIRONMENTS - COMMUNICATION SYSTEM	APPLICATIONS OF GROUP THEORY TO STRONG PARTICLE INTERACTION - SYMMETRY SCHEME FOR ISOTOPIC SPIN MYO-10274 M63-20770 21-23
RADC-TDR-63-298 N63-22068 22-09 ARC INITIATING FUSE-SWITCH CIRCUIT FOR HYPERSONIC WIND TUNNEL N63-22331 23-09	FORTRAN PROGRAM FOR SYMMETRY PROJECTION OF BLOCH ORBITALS FORMING LINEAR COMBINATIONS OF ATOMIC ORBITALS IN CRYSTALS OF ARBITRARY SYMMETRY
NONSATURATING TRANSISTOR SWITCHING CIRCUIT FOR CURRENT AMPLIFIERS AND SWITCHES IN ANALOG COMPUTERS ACL-MEMO-78 N63-23058 24-09	N63-23270 24-25 SYNCHRO-CYCLOTRON NUCLEAR RESEARCH - PROTON SYNCHROTRON 6 SYNCHRO-CYCLOTRON
SWITCHING FUNCTION SET OF MAXIMUM COMPATIBILITIES FOR INCOMPLETELY SPECIFIED SEQUENTIAL SWITCHING FUNCTION PIBMRI-1084-62 N63-12323 05-09	SYNCHRONIZATION SYNCHRONIZATION OF TELEMETRY CODES JPL-TR-32-304 MARKED AND NG3-10249 01-08
CONNECTION BETWEEN FERROELECTRIC SWITCHING AND SIEVERT INTEGRAL - SWITCHING FUNCTIONS OF LANDAUER AND FRANKLIN N63-18844 18-23	ANALYSIS AND SYNTHESIS OF RC SYNCHRONOUS NETWORKS AFOSR-2770 N63-10675 02-09 SELF-EXCITING SYNCHRONOUS GENERATORS
TUMARDS AN EMPIRICAL CALCULUS OF REINFORCEMENT VALUE VIA SWITCHING SYSTEM USING CARMEAUX PIGEONS	JPRS-17252 N63-12016 05-06 PRELIMINARY PLAN FOR GLOBAL TIMING SYNCHRONIZATION IRIG-106-62 N63-12635 06-08
SWITZERLAND VERTICAL OZONE DISTRIBUTION AT AROSA, SWITZERLAND AFCRL-63-659 N63-17597 16-12	SYNCHRONIZATION IN COMMUNICATION SYSTEMS RM-3561-PR N63-15254 12-08

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SY

SYNCHRONIZATION OF SELF-OS OSCILLATORS - ANNOTATED BI AID-8-63-84	SCILLATIONS IN IBLIOGRAPHY N63-17396	15-23	SYNCHROTRON CF PARTICLE SYNCHROTRO
TIME SIGNAL SYNCHRONIZATION FOR AUSTRALIAN MISSILE RAN		TANDARD	POLARIZED
EID-12	N63-17643	16-10	BNL CONFER
SYNCHRONIZATION OF DECISION	ON FEEDBACK SATELL	TE	SYNCHRONTR BNL-767/C-
TELEMETRY SYSTEM NASA-CR-50610	N63-18318	17-08	INJECTION
SYNCHRONIZATION OF FIELD	INTENSITY MEASURING	,	-
APPARATUS WITH TEST RADAR RADC-RAU-TH-63-3	N63-22516	23-09	SYNCHROTRO SUMMARY SEL-62-149
SYNCHRONOUS COMMUNICATIONS /S HEAT TRANSFER AND PRESSURE PROTUBERANCES IN A SUPERSO LAYER AT MACH 2.65, 3.51,	ON A FLAT PLATE A DNIC TURBULENT BOUN AND 4.44	DARY	MEASUREMEN SYNCHROTRO LNF-63/17
NASA-TN-0-1372	N63-10991	02-13	LINEAR THE
COMMUNICATIONS SATELLITE P RELAY, AND SYNCOM PROJECTS	TOTAL LINEAR AND		DAMPING COL LNF-63/18
ARS PAPER-2617-62	N63-11253	03-30	CAPACITATI
SYNCOM SATELLITE PROGRAM - SPIN STABILIZATION			ELECTRONS LNF-63/38
ARS PAPER-2619-62	N63-11254	03-09	POLARIZATI
SYNCOM SATELLITE PROGRAM - SYNCHRONOUS ORBIT WITH EXP	ERIMENT OBJECTIVES	5	QUASI-TRAN NASA-TM-X-
AIAA PAPER-63-264	N63-20938	21-32	LINEAR THE
SYNCHRONOUS COMMUNICATIONS /S	YNCOM-11/ SATELLIT	TE	BETATRON -
TRANSMISSION OF U.N. GENER RELAY I AND SYNCOM II VIA	TELEVISION AND RAC N63-21991	22-08	UNF-63/55
HARRY THE STATE OF STREET		100	NUCLEAR RE
SYNCHRONOUS COMMUNICATIONS SA COMMUNICATION SATELLITES - COURIER, TELSTAR, RELAY AM	ECHO I, ECHO II,	SCORE,	SYNCHRO-CY SYNCHROTRO
The state of the s	NA3-17758	16-32	FREQUENCY
SYNCOM PROJECT - GLOBAL CO		IRK .	SEL-62-149
WITH THREE SATELLITES NASA FACTS-C-5-63	N63-18423	17-32	SYNCOM PROJECT
SYNCHRONOUS COMMUNICATION SYNCOM SATELLITE LAUNCHING		18-32	SYNOPTIC METE
ADVANCED ANTENNA DESIGN TE PROJECT GROUND-BASED TRACK	ING SYSTEMS AND		SYNOPTIC S
SPACECRAFT COMMUNICATIONS GER-10979	SYSTEM N63-19274	18-08	SYNOPTIC M CLASSIFICA
SER-10979		10-00	CLOUD VISI
SYNCOM I IGNITER SQUIB NASA-CR-50779	N63-19787	19-26	AFCRL-63-2
HA3A-CK-30179	403-19101	14-50	SYNOPTIC S
SYNCHRONOUS MOTOR VOLTAGE DIFFERENTIAL EQUAT SALIENT POLE MACHINE RUNNI		E	ASSOCIATED RSIC-37
SPEED - APPROXIMATE COMPUT		RCUITS	TIROS RADI
RAE-TRANS-1001	M63-16851	14-09	NIGHT SYNON
SYNCHRONOUS SATELLITE COMMUNICATIONS SATELLITES	- ACTIVE REPEATERS	AND	RECORD AND
PASSIVE REFLECTORS	N63-11143	03-30	CORRELATIO
SYNCHRONOUS SATELLITES USE SATELLITES	D AS COMMUNICATION N63-11151	03-09	OBJECTIVE AFCRL-63-8
SATELETIES .	11171	0, 0,	SYNOPTIC SYST
SYNCHRONOUS SATELLITES	NG IN SPIN-STABILI N63-13301	07-30	RADIATION INTERPRETA
OPTIMIZATION OF ION ENGINE	CONTROL SYSTEMS F	OR	AFCRL-63-2
SYNCHRONOUS SATELLITES ALAA PAPER 63-273	N63-21122	21-27	SYNOPTICAL ME VERTICAL O
	THE PERSON NAMED IN	101110	HEASUREMEN
SYNCHROPHASOTRON PARTICLE MOVEMENT THEORY A	ND INCREASING CYCL	10	AFCRL-63-4
ACCELERATOR EFFECTIVENESS			DECAMETRIC
JPRS-13752	N63-13993	09-23	OBSERVATIO MEASUREMEN
RESEARCH IN THEORY OF MOVE		IN	
MODERN CYCLIC ACCELERATORS SYNCHROPHASOTRON	- BETATRON AND N63-13994	09-23	SYNTAX CF LANGUAGE

HROTRON	10 TO	
PARTICLE ACCELERATOR	PCE CE !!!	
YNCHROTRON RADIATION AS THE SOU OLARIZED DECIMETER RADIATION		2138
THE RESERVE OF THE PARTY OF THE	N63-10961	02-05
NL CONFERENCE PAPERS - HIGH ENE	RGY ACCELERAT	TORS.
YNCHRONTRON, PHASOTRON, CYCLOTR	ON. PLASMA. I	ONS
NL-767/C-36/	N63-12925	07-23
NJECTION OF ELECTRONS INTO SYNC	HROTRON, INTE	
S-522	N63-14242	10-23
YNCHROTRON EMISSION FROM HIGH-E	MERGY ELECTRO	ONS -
UMMARY EL-62-149	N63-14246	10-12
STREET, THE PERSON NAMED IN COLUMN STREET, THE PARTY OF THE PERSON NAMED IN COLUMN STREET, THE PERSON NAMED IN COLUMN STR	MILE CHICAGO	CATEUR.
EASUREMENT OF BREMSSTRALUNG SPE	CTRUM BY USE	OF
YNCHROTRON NF-63/17	N63-15537	12-00
INEAR THEORY OF ACCELERATORS - AMPING CONSTANTS OF CIRCULAR AC		
NF-63/18	N63-15857	13-23
APACITATIVE DEVICE FOR MEASURIN	G CIRCULATING	
LECTRONS IN A SYNCHROTRON		
NF-63/38	N63-19591	19-23
OLARIZATION OF SYNCHROTRON RADI		
UASI-TRANSVERSE PROPAGATION REG ASA-TM-X-50725	N63-22172	23-28
		122
INEAR THEORY OF ACCELERATORS - ETATRON - COUPLING COEFFICIENTS		
SCILLATIONS	. J. HUNIZUN	0.000
NF-63/55	N63-23198	24-23
IKI EAD DECCARCII	OTRON A	2924
UCLEAR RESEARCH - PROTON SYNCHR YNCHRO-CYCLOTRON	OTRON 6 N63-23355	24-23
YNCHROTRON EMISSION AS SOURCE O		ARTH
REQUENCY AURORAL NOISE		
EL-62-149/SUP/	N63-23659	24-28
OM PROJECT		153 W.
SYNCHRONOUS COMMUNICATIONS /SYN	COM/ SATELLI	TE
PTIC METEOROLOGY		
ORRELATION OF TIROS I CLOUD OBS	ERVATIONS WI	TH
YNOPTIC SCALE RADAR OBSERVATION		
FCRL-63-223	N63-13560	08-21
YNOPTIC METEOROLOGY - RADAR COM		
LASSIFICATION SCHEME FOR CYCLON	ES, PRECIPITA	
LOUD VISIBILITY, TURBULENCE AND FCRL-63-22	ICING N63-13818	09-21
YNOPTIC STUDY OF MESOSCALE INST		5
SSOCIATED WITH SEVERE LOCAL STO SIC-37	RMS N63-19756	19-21
	TA MARKET	7338Mil
IROS RADIOMETRY AND ITS UTILIZA IGHT SYNOPTIC METEOROLOGY	TION FOR DAY	AND
ASA-RP-18	N63-21353	22-12
ECORD AND WEATHER MAP DETERMINA	TION OF	55 A.
ORRELATION BETWEEN TOTAL CLOUD		38 3
BJECTIVE SYNOPTIC PARAMETERS		22.00
FCRL-63-868	N63-21614	22-21

TEM DATA OF TIROS II - SYNOPTIC ATION AND HEAT BALANCE DETERMINATION 247 N63-14399 10-13

EASUREMENT
0ZONE DISTRIBUTION - SYNOPTIC
NT - WEATHER CONDITIONS
467 N63-16133 13-21 C RADIATION FROM JUPITER - SYNOPTIC ONS 1957 TO 1961 - RADIATION STORM NTS N63-20691 21-05

METHOD FOR AUTOMATIC CONSTRUCTION OF SYNTAX DIRECTED COMPILERS

2-05 RS, NS 7-23

517y 0-23 1-0-12

-23

-23

-28

-23 -23

-28

10M -21

ON, -21

12

21

13

21

09

AFCAL-62-955 ACI-ASHOT YEALINDA M63-12	STATISTICS	S COOLING SYSTEM: YATHBBA MATHEMITARYNA BASHGZORTA SE COORDINATE SYSTEM
AND STREET TO SEE THE SEA POINT	397583-09-20	S DIGESTIVE SYSTEM YEAR JINUA SAR JOHN HOT METERS OF DIGITAL COMMUNICATIONS SYSTEM - YEAR AUTIMAN
CLEAR REACTOR DESCRIPTIONS - T. ASSEMBLY AND ASSEMBLY AND ASSEMBLY	UNITARIS OF	S - DISPLAY SYSTEM SEATH SEATH SEATH SEATH SEATH SEATH SEATH SEATH FOR MUCLEAR AUXILIARY POREMETERS SEATH SE
CF CHENICAL REACTION UTILIZATION OF NONPRECISE TUNING COMPON TECHNIQUES FOR PRECISE FREQUENCY SYNTHE	NENTS INCH	S EXHAUST SYSTEM S PEED SYSTEM ON THE STATE HALLET BASK-RA-AM. S FUEL SYSTEM
M63-12	2694 06-09 5	S GUIDANCE SYSTEM OF THE TOWN TOWN TOWN THE SYSTEM OF THE TOWN THE SYSTEM OF THE SYSTE
CORROSION - CHEMISTRY, ANALYSIS AND SYP	3234 07-01	S INVESTIGNT SYSTEM S INVOCTION SYSTEM S INVESTIGNT SYSTEM STATE AND STATE STATES STAT
SYNTHESIS, PURIFICATION, AND CHARACTERI BENZIMIDAZOLE BERIVATIVES A 2 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	NO 文字至至于10元	S LIFE SUPPORT SYSTEM
SYNTHETIC LIQUID FUEL - FUEL PROCESSING HYDROGENATION, AND SYNTHESIS DTS 61-310751222 01014 24 2127 M63-11	SYSTERS ANALY	S MAN-MACHINE SYSTEM 280734 MANY 134 MIDS S MECHANICAL SYSTEM 280734 MANY 134 MIDS METAL-GAS SYSTEM
- 10	012218 RUS	S MONITORING SYSTEM ROTARING BYDTOZI HTRAT . BAYE
FREQUENCY SYNTHESIS FOR COMMUNICATION 1 AND RECEIVERS RH-3756-PROR EXCAL HORASER GMA 1863-20	0901 21-09	S MULTIPLE AIRBORNE TARGET TRAJECTORY SYSTEM /MATTS S MAVIGATION SYSTEM S MERVOUS SYSTEM
SYNTHESIS OF ENDOTHERMIC CHEMICAL SPECT		S POWER SYSTEM SCHALAR AND MALE AND ASSESSED STREET SCHALAR STREET SCHALAR STREET STREET SCHALAR STREET SCHALAR STREET SCHALAR STREET STREET SCHALAR STREET SCHALAR STREET SCHALAR STREET SCHALAR SCHALAR STREET SCHALAR STREET SCHALAR STREET SCHALAR SCHALAR STREET SCHALAR
MASA-CR-51656Y2 X3.4NJJ 70 212YJNN63-21	11 ANDAMA.	CHYTTCAL ASSEMBLIES TO SHAP PROBRESS TRADUCTOR
ISOTOPIC EFFECT IN ELECTROSYNTHESIS OF FTD-TT-62-1535-16264 N63-23	020NE 3379 24-19	S RESPIRATORY SYSTEM S SELF-ADAPTIVE SYSTEM
SYNTHESIS OF PERFLUORODICARBONIC ACIDS FT0-TT-63-457/1	3382 - 24-07 5	S SYNOPTIC SYSTEM DATE SANDER CLEEK STAND
	AND 444 5	S TRACKING SYSTEM
JEGS - TECEVISION SYSTEM ANALYSIS AND		A1-7950 NA3-1211 OS-DA
SYNTHETIC FIBER : 1 2430MAR - 1300M 318T900 CF MYLON 23	SPACE PAGE	VETER COR MINTERS AUVIL TARY DOUGD /CHAR/ DEGGAR
CF POLYMIDE CF POLYESTER POLYMERS, PLASTICS, SYNTHETIC FIBERS -		CF NUCLEAR POWER NUCLEAR ELECTRIC POWER SYSTEMS ARS PAPER-2522-62 N63-10260 D1-06
CORL-SP-4-34 200 N63-10	0073 01-19	TEMPERATURE COEFFICIENTS & SPECTRA IN HYDRIDE
REVIEW OF POLYMER AND PLASTIC MATERIALS CRDL-SP-5-1	0436 01-19	MAA-SR-7140 H69-11825 04-06 DIRECT EMERGY CONVERSION AND SYSTEMS FOR MUCLEAR
HEAT TRANSFER THROUGH FABRIC OF NEW HEAT NONFLAMMABLE SYNTHETIC FIBER IN CONTACT FLAMES		AUXILIARY POWER - LITERATURE SEARCH TID-3561 /REV. 3/
THE RESTAURT OF THE PARTY OF TH	2666 - 06-13	NUCLEAR REACTOR KINETICS, STABILITY AND CONTROL - BIBLIOGRAPHY
STATEMENT OF THE STATE OF THE STATE OF THE STATEMENT OF T		NAA-SR-7786 NAS-14022 09-23 COMPACT NUCLEAR REACTOR DESCRIPTIONS - PLANNED
CF POLYESTER CF POLYETHYLENE CF POLYETYRENE CF POLYSTYRENE		OPERATIONAL AVAILABILITY N63-14144 09-06
CF POLYVIETHANE CF POLYVINYL CHLORIDE CF POLYVINYL CHLORIDE	PRODUKEN SENS	SNAP AEROSPACE SAFETY PROGRAM MAA-SR-8097 M63-14664 10-06
CF TEFLON NONDESTRUCTIVE TESTING OF GLASS FIBER A SYNTHETIC RESIN COMPOSITES BY ULTRASON	PY S CANCELLE CANCELLE	AEROSPACE SAFETY DEVICES OF SNAP PROGRAM NAA-SR-7797 NA3-14724 11-06
DFL-192 N63-14	4578 10-19	HIGH TEMPERATURE LIQUID METAL HEAT TRANSFER FOR LIQUID METAL COOLED REACTORS IN CONJUNCTION WITH SNAP PROJECT
CF ELASTONER CF POLYBUTADIENE	NASA-TH-K-S	BNL-756/C-35/25 CM PERSON AND HELD OF THEY SEE
CF POLYISOBUTYLENE		HIGH-TEMPERATURE LIQUID METAL HEAT TRANSPER + DEVELOPMENT PROBLERS OF SNAP REACTOR SYSTEM, REACTOR DESIGN AND MATERIAL MG3-15002 11-13
S ADAPTIVE CONTROL SYSTEM THE THE TAXABLE SYSTEM	- SANSANGS ANNE SANSAN	ELECTRIC PROPULSION WITH SMAP SYSTEMS NAA-SR-7005 13-27
S CAROLOVASCULAR SYSTEM S CIRCULATORY SYSTEM S CLOSED LOOP SYSTEM S COMMUNICATION SYSTEM	S PARTITIONS CO PARAMYPOO	SYSTEM FOR NUCLEAR AUXILIARY POWER PROGRAM - PUEL CORE HEATING DURING REENTRY : N63-16331 13-30
S CONJUGATED SYSTEM	- SYAPORIA	SYSTEM FOR NUCLEAR AUXILIARY POWER PROGRAM - UPPER
	200	The state of the s

SYST

1-

TA

ATMOSPHERE EXPERIMENTAL REENTRY STUDY NAD-P-2953 N63-16336 13-30	SYSTEM FOR MUCLEAR AUXILIARY POMER-10A /SNAP-10A/ STATISTICAL ANALYSIS OF SNAP-10A THERMOELECTRIC CONVERTER ELEMENT PROCESS DEVELOPMENT VARIABLES
SYSTEM FOR NUCLEAR AUXILIARY POWER PROGRAM - REACTOR SAFETY - SHIELDING	NAA-SR-7288 N63-12742 04-4
NAA-SR-7432 N63-16934 14-06	COMPACT NUCLEAR REACTOR DESCRIPTIONS - PLANNED OPERATIONAL AVAILABILITY M63-14144 09-64
SYSTEM FOR NUCLEAR AUXILIARY POWER SHIELD TEST EXPERIMENT REACTOR NAA-SR-7368 N63-16939 14-06	FLIGHT TEST CRITERIA FOR REENTRY NUCLEAR AUXILIAN POWER SYSTEM 10A
HIGH TEMPERATURE DESTRUCTIVE TESTING OF PLUTONIUM	AFSWC-TDR-62-83
FUEL CAPSULES FOR THERMOELECTRIC CONVERTER - SYSTEMS FOR NUCLEAR AUXILIARY POWER PROGRAM AFSWC-TOR-62-12 N63-17019 15-07	HAZARDS THAT MAY OCCUR BEFORE, DURING AND AFTER THE FLIGHT OF SMAP 10A NUCLEAR REACTOR — THERMAL SHOCK NAA-SR-8304 M63-18265 17-04
SYSTEMS FOR NUCLEAR AUXILIARY POWER PROJECT - RELIABILITY N63-17280 15-06	SYSTEM LIFE VERTICARION, AND CHARACTERS FOR THE
STATISTICAL ANALYSIS OF HOT CHANNEL FACTORS FOR COMPACT SNAP REACTORS NAA-SR-8468 18-23	EFFECTS OF NATURAL SPACE RADIATION ON SPACECRAFT SYSTEMS LIFE - PHOTOGRAPHIC FILM DEGRADATION D2-90037 H63-20172 20-28
POWER FROM ISOTOPES - SNAP PROGRAM - ISOTOPES IN SPACE, EARTH ISOTOPE GENERATORS AND SAFETY	SYSTEMS ANALYSIS COST-DEMEFIT ANALYSIS AS AID TO SYSTEM SELECTION FOR MISSION
TYPE HETEYE YECTOBLAST TRANSF THE NGS-21476 IY 22-29	SP-201 M63-12833 06-01
AEROSPACE NUCLEAR SAFETY FOR SNAP PROGRAM — REENTRY, IMPACT, AND HAZARDS NAA-SR-8303 N63-22359 23-16	MODES OF INQUIRY AND RESEARCH TASKS FOR GENERAL SYSTEMS ANALYSIS RAC-TP-72
WATER REFLECTED, UNDERMODERATED, ZIRCONIUM HYDRIDE CRITICAL ASSEMBLIES - SNAP PROGRAM NAA-SR-8490 103-22971 23-23	MATHEMATICAL ANALYSIS OF COMPLEX SYSTEMS - QUEUING THEORY, LANCHESTER THEORY OF COMBAT, SAME THEORY, NUMERICAL METHODS, SIMULATION AND MARKOV MODELS
SYSTEM FOR NUCLEAR AUXILIARY POWER-2 /SMAP-2/ ORBITAL FORCE FIELD BOILING AND CONDENSING	AFCRL-63-38 N63-13978 09-20 PREDICTION OF FIELD RELIABILITY FOR AIRBORNE
EXPERIMENTS - THE SNAP-2 POWERPLANT ER-4670 N63-10558 01-06	ELECTRONIC SYSTEMS N63-14307 10-04 ANALYSIS OF MAN-MACHINE SYSTEM - SYSTEMS ANALYSIS,
SNAP-2 POWER CONVERSION SYSTEM N63-10588 02-06	MATRIX-NETWORK, DECISION MAKING, AND HUMAN BEHAVIOR AFOSR-4490 N63-14954 11-28
APPLICATION OF SNAP-2 TO MANNED ORBITAL SPACE	14-173 - 276 1-614
STATIONS AI-7950 N63-12311 05-06	RANGER PROJECT - TELEVISION SYSTEM ANALYSIS AND LUMAR PHOTOMETRIC MODEL - RANGERS III, IV AND V SPACE PROBES
HIGH TEMPERATURE LIQUID METAL HEAT TRANSFER - COMPONENTS FOR SNAP 2 LIQUID COOLED REACTOR, PUMP, HEATER, FLOW TRIMMER, RADIATOR-CONDENSER N63-15020 11-13	JPL-TR-32-384/REV./ N63-15244 11-32 EQUIVALENT SYSTEMS METHOD FOR EVALUATING RELIABILITY OF ONE-SHOT WEAPONS SYSTEMS
TEMPERATORE COEPFICIENTS & SPECIAL IN SYDNING	N63-15342 12-01
SYSTEM FOR NUCLEAR AUXILIARY POMER-7 /SNAP-7/ SNAP-7 PROGRAM - STRONTIUM-90 FUELED THERMO- ELECTRIC GENERATOR	RELIABILITY AND EFFICIENCY DESIGN FOR
MND-P-2483-6 CASTACA CASTACA N63-10309 01-06	HEAT TRANSFER THROUGH PARALETE BEN HERE RESISTANT
SNAP-78 STRONTIUM-90 FUELED THERMOELECTRIC GENERATOR FOR COAST GUARD AUTOMATIC LIGHT STATION MND-P-2836 N63-20584 20-06	DATA ACQUISITION AND SYSTEM CONTROL THROUGH TIME SHARING OF MIXED INPUT SUDARR-147 N63-17035 15-09
SYSTEM FOR NUCLEAR AUXILIARY POWER-70 /SNAP-7D/	SYSTEM ANALYSIS OF SAMPLING DATA FOR RELIABILITY
STRONTIUM-90 FUEL THERMOELECTRIC GENERATOR POWER SOURCE FOR NAMY FLOATING WEATHER STATION - SNAP TO MND-P-2835 N63-15036 11-15	CONTROL NASA-CR-50311 N63-17207 15-17
SYSTEM FOR NUCLEAR AUXILIARY POWER-8 /SNAP-8/ GUIDANCE PERTURBATIONS FOR A LOW-THRUST MARS ORBIT	INTEGRATED MISSION CONTROL CENTER SYSTEMS AND PERFORMANCE REQUIREMENTS SPECIFICATION NASA-CR-50436 N63-18255 17-32
MISSION USING SNAP-B NASA-TN-D-1433 N63-10734 02-22	DESIGN, SYSTEM REQUIREMENTS & DEVELOPMENT PLANS FOR LARGE SOLID PROPELLANT LAUNCH VEHICLES
SPACE POWER SYSTEMS - EMISSIVITY OF CANDIDATE MATERIALS FOR SHAP-8 POWERPLANT	NASA-CR-50575
PWA-2088 N63-11697 04-19 SURVEY OF METEOROID PROPERTY AND DISTRIBUTION DATA	MIMBUS PROJECT - MANAGEMENT PLANNING AND SYSTEMS ANALYSIS NASA-TM-X-50151 N63-18601 17-30
RELEVANT TO SYSTEM FOR NUCLEAR AUXILIARY POWER 8 REACTOR AND SHIELD DESIGN NAA-5K-8127 N63-15415 12-32	NIMBUS PROJECT - SYSTEMS AMALYSIS N63-18602 17-30
SYSTEM FOR MUCLEAR AUXILIARY POWER PROGRAM/SMAP 8/	NIMBUS SATELLITE - SYSTEMS ANALYSIS - SENSORY RIMS
REACTOR AND SHIELD DESIGN AIAA PAPER-63033 N63-20723 21-06	CONTENTS - MANAGEMENT PLANNING N63-18606 17-30
EVALUATION OF SODIUM-POTASSIUM AND ORGANICS AS PLUIDS IN HEAT REJECTION LOOP OF SNAP-8 SYSTEM N63-23629 24-19	ENGINEERS GUIDE FOR DYNAMIC SYSTEM ANALYZER, DYNASAR - DIGITAL COMPUTER PROGRAM M-3-19197 18-20
ASTAN - MARSON WENDS AND AMERICAN WASTERN	AUTOSATE - AUTOMATED DATA SYSTEM ANALYSIS
The second secon	ATRICATES TO THE STATE OF THE S

C S N-04

3-30 R

7-04 FT 0-28

CM 6-01 L-7-01

JING IV,

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-01

-08 E -09

-32

-27

30

30

30

20

TECHNIQUE	N63-19339	18-01	TACTILE SENSATION	- CHE 1880	SAY-
SYSTEMS ANALYSIS AND FINAL P	HASE-OUT REPORT	ON	TACTILE COMMUNICATIONS WITH AIR JET	3-10412	01-0
LUNAR ORBITER CAPSULE NASA-CR-51242	N63-22054	22-32	TAIL SA SHEPTBACK TAIL	PLANTA LONG	INGS MA
LAUNCH VEHICLE COST ESTIMATE	AND SYSTEM ANAL N63-23210	YS1S 24-30	CF T TAIL SURFACE	17 - 200 - 10	-170 -170
SA SPACE SYSTEMS ENGINEERING SIGNAL ANALYSIS AND REPRESEN	ITATION - PURE SY	STEM	EFFECTS OF WING-CRANK, LEADING-EDGE EXTENSIONS & HORIZONTAL-TAIL HEIGHT LONGITUDINAL STABILITY OF SWEPT-WIN NASA-TH-X-92	ON MODELS	07-0
DESIGN USING DIRAC NOTATION THEORY CONCEPTS AFCRL-62-909	N63-19200	18-09	HIGH SPEED WIND TUNNEL TEST OF TARY MISSILE - TAIL FIN OSCILLATION IN T TM-348-33.6-11	RANSONIC	FLOW
SYSTEMS ENGINEERING AS TOOL OF DEVELOPMENT PROGRAMS - NA		EMENT	TRANSONIC FLUTTER OF ALL-MOVABLE HO	SULL ISTINOVY	W. WIII
A MINISTER OF THE PARTY OF THE	N63-21151	21-06	BENDING & PITCHING MOMENTS NACA-RM-L56G06	63-20526	20-3
SYSTEMS ENGINEERING FOR MANN	N63-23202	24-32	EFFECT OF X-15 MANUAL FLIGHT CONTRO SYSTEMS ON HORIZONTAL TAIL LOAD	OL AND STA	anil E
TAIL SURFACE	TER-D-NT-	ALAN ALAN	WING-TAIL INTERFERENCE AT SUPERSON	WALL TO BEST ST	unto
CF TAIL FLIGHT-DETERMINED STABILITY	& CONTROL DERIV		USCEC-65-56 TAGTER STOS-830M NO		24-0
OF SUPERSONIC AIRCRAFT WITH UNSWEPT WING & T-TAIL NASA-MEMO-2-2-59H	N63-13886	09-04	TAIL ASSEMBLY WIND TUNNEL STABILITY TESTS ON CRU MODEL WITH FIXED & FREE SPINNING TO NORMAL FORCE OF DISTRIBUTION - PITO	AIL ASSEMB	BLIES
-38 AIRCRAFT PILOT-INDUCED OSCILLATIONS 1	N T-38 AIRCRAFT	Jala	NOLTR-63-79	63-18328	17-0
ANALYZED BY PILOT-VEHICLE SY	N63-22534	23-04	STATIC STABILITY AND CONTROL CHARA AIRCRAFT HODEL WITH TAIL SURFACES	CTERISTICS	S OF
FLUTTER OF CONTROL SURFACES AEROELASTICITY	AND TABS - N63-14117		WING TIPS NASA-TH-X-47	63-12552	06-0
	#U14918 655-18-301	CHA	AEROELASTICITY - FLUTTER OF WING P SURFACES, ALL-MOVABLE TAIL SURFACE EQUATIONS, STATIC DIVERGENCE, CONT	S - MOTTON	SAL
EUR-108.F	M42 20770	02-20	FLUTTER OF POWERED CONTROLS AND OF		
EARTH-VENUS TRAJECTORIES, 19 JPL-TM-33-99	964 - VOL. 1, PA N63-13486		TAIL PLANES - AEROELASTICITY N	63-14118	09-
TABLE OF MEAN SQUARE EXPECT, RATIOS FOR TESTING MULL HYPO VARIANCE FOR 2, 3, 6 4-MAY (NML-1833	ATIONS & VARIANC OTHESES IN ANALY CROSSED CLASSIFI	SIS OF	WIND TUNNEL STABILITY TESTS ON CRU MODEL WITH FIXED & FREE SPINNING Y NORMAL FORCE OF DISTRIBUTION - PIT NOLTR-63-79	AIL ASSEM	BLIES
HATHEMATICAL TABLE OF NUMERS BY DIGITAL TECHNIQUE SCR-501	ICAL ROOTS CALCU	LAYED	LOW-SPEED LONGITUDINAL STATIC STAB CHARACTERISTICS OF AIRCRAFT WITH S TAIL SURFACES OUTBOARD OF WING TIP WASA-MEHO-6-11-59L	WEPT WING:	
MATHEMATICAL TABLES OF PROB	ALCOHOLD VIEW BOOK MINES	Clare LAG.	TAILLESS AIRCRAFT		200
NONCENTRAL T-DISTRIBUTION - ARL-63-19	N63-15225	11-20	SUBSONIC AND SUPERSONIC WIND TUNNE ASPECT RATIO SWEPTBACK WING TAILLE AIRCRAFT MODEL/STABILITY AND CONTR	SS FIGHTE	SEVAN!
MATHEMATICAL TABLES OF COHE STATIONARY BIVARIATE GAUSSIA IN EXPERIMENT DESIGN			TAILLESS CONFIGURATION	63-13064	199-0 19888
SCR-483 , WHY BOARD HOW ENG	N63-15464	12-23	FREE FLIGHT TEST OF TAILLESS MISSI WITH 45-DEG SMEPTBACK WING OF ASPE		
FACTORS FOR ONE-SIDED TOLER/ VARIABLES SAMPLING PLAN - NO DISTRIBUTION FUNCTIONS SCR-407	ATHEMATICAL TABL	ES FOR	was referred to the a state of the last to be to see	63-13986	09-
The state of the s	363-2384		CF LANDING	Tippia - I	TARRES
KEPLERIAN TABLES FOR CONIC.	N63-23357	24 05	CF LAUNCHING AERODYNAMIC PROBLEMS OF SHORT TARE LANDING OF V/STOL AIRCRAFT		
S TACTICAL AIR NAVIGATION /T			OFL-167 PARTIES OF PERMANETARE N	NEVSEL GIFF.	coka.
ACTICAL AIR MAVIGATION /TAGAM. SOLID STATE TACTICAL AIR MA	VIGATION RECEIVE		DRAG FOR TAKEDFF AND LANDING	the TO RE	OUCE O4-
ESD-TDR-63-128	M93-18090	Info Mark	AERODYNAMIC PROBLEMS AT TAKEOFF AN	1088-85	2-342
SOLID STATE TACAN MONITOR - BOARD - PHYSICAL & ELECTRICA ESD-TOR-63-321	DELIVERABLE BRE	Total and the second	HIGH SPEED AIRPLANES, V/STOL AIRCR OFL-193	AFT, RUMB 143-14353	AYS .
TACTICAL AIR NAVIGATION TRA	MARKET TIP MY W.	10017	V/STOL AIRCRAFT - GROUND HANDLING, TRANSITION, ENGINE-OUT CHARACTERIS	TAREOFF,	TRUME

TANTPPPS HOFFU

TAPE SA SA CF L

TAKEOFF AND LANDING OPERATION BY TRANSPORT AIRCRAFT N63-22044 22-04	NASA-TN-D-1945 N63-19279 18-33
TAKEOFF RUN INFLUENCE OF SLUSH ON THE TAKEOFF RUN OF AN	ALUMINUM EXPULSION DIAPHRAGM FOR SPHERICAL PROPELLANT TANKS NASA-CR-50846 N63-19991 19-17
AIRPLANE	COLUMN TO ANNUAL AND LESS LAND TO THE SECOND PROPERTY OF THE PARTY OF
DFL-188 N63-14438 10-04 TAKEOFF SYSTEM	PHOTOELASTIC ANALYSIS OF REINFORCED OPENINGS IN CYLINDRICAL, SPHERICAL, AND TORO-SPHERICAL SHELLS SUBJECTED TO INTERNAL PRESSURE
CF CATAPULT CF LANDING	N63-23497 24-2
CF LAUNCHING FALC	DAMPING EFFECT OF FLAT RING BAFFLES ON LIQUID SLOSHING IN PARTIALLY FILLED CYLINDRICAL TANKS NASA-CR-52070 N63-23511 24-1
FORMATION HEAT OF GEHLENITE AND TALC DETERMINED BY HYDROFLUORIC ACID SOLUTION CALORIMETRY BM-RI-6251 N63-17454 15-07	EFFECT OF CONTACT ANGLE AND SPACE VEHICLE TANK GEOMETRY ON CONFIGURATION OF ROCKET PROPELLANT LIQUID-VAPOR INTERFACE DURING WEIGHTLESSNESS NASA-TN-D-2075
ANDEM-ROTOR HELICOPTER	TANK TEST 14 SAME GUILLER BOY DRIES AND SHEET SYSTEM
CF ROTOR STUDY OF TANDEM HELICOPTER FUSELAGE VIBRATION R-275 01-33	EFFECT OF MA-7 SPACECRAFT ACCELERATIONS AND REENTRY DECELERATIONS ON THE LIQUID-VAPOR INTERFACE IN A BAFFLED TAME
WIND TUNNEL HEASUREMENTS, BLADE MOTIONS, AND BLADE	NASA-TN-D-1577 N63-11618 04-2
AIR LOADS FOR TANDEM-ROTOR HELICOPTERS NASA-TN-D-1971 N63-22116 22-03	TANTALUM PRODUCTION AND PROPERTIES OF SEMIFINISHED TANTALU
TANK PERSON ASSESSMENT OF STREET STREET, COMMENT OF STREET	JPRS-17296 N63-12134 05-1
SA FUEL TANK SA PROPELLANT TANK CF CONTAINER	REFRACTORY METAL PROTECTIVE SYSTEMS RESEARCH - MOLYBDENUM, NIOBIUM, TUNGSTEN, TANTALUM - BIBLIOGRAPHY
FREE-SURFACE SHAPE OF A STATIC FLUID IN A CYLINDRICAL TANK OF LARGE RADIUS	TDR-169/3240-31/TR-2 N63-14236 10-1
JPL-TR-32-344 N63-10218 01-11 THEOREMS FOR CHANGE OF VOLUME AND MOMENTS OF	HIGH TEMPERATURE OXIDATION AND BEHAVIOR OF TANTALUM AND TANTALUM BASE ALLOYS AR1-62-397 N63-14590 10-1
VOLUME OF ELASTIC TANKS SUBJECT TO ARBITRARY INTERNAL PRESSURES N63-10497 01-20	HIGH TEMPERATURE STUDY OF ANELASTICITY OF TANTAL
TEMPERATURE DISTRIBUTION AND HEAT TRANSFER IN INSULATION OF COMPRESSED-GAS TANKS	AND NIOBIUM ASD-TDR-62-323 N63-15034 11-
FTO-TT-62-1459/16264 N63-12754 O6-13 EXPULSION OF LIQUID PROPELLANT FROM TANK IN ZERO GRAVITY	NOTCH SENSITIVITY OF TANTALUM, NIOBIUM, MOLYBDEN REFRACTORY METALS - IMPACT PROPERTIES, FRACTURE TOUGHNESS, CRACK PROPAGATION N63-15094 11-
SSD-TDR-62-172 N63-12843 07-26	NOTCH SENSITIVITY OF REFRACTORY METALS - NIOBIUM. TUNGSTEN, TANTALUM, MOLYBDENUM, AND MOLYBDENUM-
AIR EXPANSION IN A TANK N63-13076 07-23	TITANIUM ALLOYS ASD-TDR-62-1004 N63-15689 12-
LIQUID SLOSHING IN 45-DEG SECTOR COMPARTMENTED CYLINDRICAL TANKS N63-13630 08-23	MECHANICAL PROPERTY OF TANTALUM - DUCTILE-BRITTLE TRANSITION
DYNAMIC ANALYSIS OF LIQUID IN A SPHERICAL TANK WITH APPLICATIONS TO TRAJECTORY FAILURE AND LOSS	ASD-TR-61-203, PT. II N63-15715 12-
OF CONTROL IN MISSILE AND ROCKET FLIGHT N63-13631 08-23	SURFACE IONIZATION OF CESIUM ON POROUS TUNGSTEN, RHENIUM, MOLYBDENUM, AND TANTALUM — COMPARISON OF POROUS MATERIAL AND SOLID SURFACE DATA
PORPOISE PERFORMANCE TESTS IN A SEA-WATER TANK MAVWEPS-8060 N63-13676 08-16	N63-17658 16-1
HOT WATER ROCKET - EXHAUST NOZZLES, AIR INTAKE, SERVOCONTROLS, TANKS N63-14436 10-27	PREPARATION OF MIDBIUM AND TANTALUM BY METALLIC REDUCTION OF THEIR CHLORIDES BM-RI-6080 N63-17887 16-0
TITANIUM TANKAGE DEVELOPMENT - BULKHEAD GORES AND BULKHEAD TOOLING - HONEYCOMB SANDWICH CONSTRUCTION RTD-TDR-63-1023	MET TANTALUM CAPACITORS FOR SPACE ENVIRONMENT ADN-03-16-62-1 N63-18095 16-6
LONGITUDINAL FORCED VIBRATION OF PARTIALLY FILLED TANKS - LIQUID DYNAMICS N63-15260 12-33	DEFORMATION AND ANNEALING OF TANTALUM AND TANTALUM-TUNGSTEN ALLOYS AT CRITICAL STRESS LA-2871 N63-19631 19-1
UNDERWATER EXPLOSION TANK OF HYDRA PROJECT USNRDL-TR-623 N63-15539 12-10	X-RAY BACK-REFLECTION DIVERGENT BEAM STRAIN ANALYSES OF TANTALUM AND TUNGSTEN SINGLE CRYSTAL N63-19659 19-
SLOSH DAMPING EFFECTIVENESS OF POSITIVE EXPULSION BAGS AND DIAPHRAGMS IN SPHERICAL TANKS NASA-TN-D-1712 N63-16601 14-11	TANTALUM SPECIFIC HEAT-EMISSIVITY RAYIO AT HIGH TEMPERATURES
DEEP ELECTROLYTIC TANK AS LIFTING-SURFACE CALCULATOR - ELECTRIC ANALOGY ARC-REM-9301 N63-17209 15-15	HIGH TEMPERATURE REFRACTORY MATERIAL PROGRAM - STRESS RUPTURE AND IRRADIATION DATA FOR TUNGSTEN
TITANIUM TANKAGE DEVELOPMENT - ENGINEERING - MANUFACTURING - QUALITY CONTROL	MOLYBDENUM, AND TANTALUM GEMP-25A N63-20138 20-
\$10-63-846 N63-18991 18-17	TEMPERATURE EFFECT ON SOLUBILITY OF TANTALUM IN LIQUID PLUTONIUM LAMS-2952 N63-22378 23-
COUPLED DYNAMIC RESPONSE OF PARTIALLY-FILLED TANK UNDER FREE AND FORCED PLANAR OSCILLATIONS	LAMS-2952 N63-22378 23-1

33

17 S 23

11

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26

18

18

18 .UH 17 NUN -18 10 -18 E. -18

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-07 -09

-18

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-25 .

-18

-18

TANTALUH ALLOY	ARF-3197-15 N63-10956 D2-26
TENSILE AND STRESS-RUPTURE PROPERTIES OF A TANTALUM MODIFIED NICKEL-BASE ALLOY NASA-TN-D-1531 N63-14402 10-1	
MIGH TEMPERATURE OXIDATION AND BEHAVIOR OF	FORM HW-75746 N63-12456 06-15
AR1-62-397 N63-14590 10-1	8 METAL FIBER REINFORCED SOLDERING TAPE AND BEARINGS OF LEAD-TIN ALLOYS
MACHINING OF REFRACTORY METALS - TUNGSTEN, TANTALUM-TUNGSTEN, MOLYBDENUM-TITANIUM ALLOYS AND	ARF-8765-25 N63-12801 06-18
STEEL ASD-TR-7-532A/V/ N63-14882 11-1	TAPE REELING STRIENS
SILICIDE PROTECTIVE COATINGS FOR TANTALUM ALLOYS ASD-TDR-63-232 N63-16455 14-1	
HIGH TEMPERATURE OXIDATION-RESISTANT COATINGS FOR	MATERIAL STREET STREET STREET STREET STREET STREET
ASD-TDR-63-160 N63-16496 14-1 BINARY AND TERNARY PHASE DIAGRAMS OF NIOBIUM.	
MOLYBDENUM, TANTALUM AND TUNGSTEN DMIC-183 N63-16586 14-1	APPLICATION OF THE MODULARIZATION CONCEPT TO SATELLITE TAPE RECORDERS NASA-TN-D-1451 N63-10176 01-15
HIGH TEMPERATURE REACTOR MATERIAL - STRESS-RUPTUR	FINE STRUCTURE OF METEOR-BURST SIGNALS RECORDED WITH HIGH SPEED MAGNETIC TAPES
MOLYBDENUM, TANTALUM, TUNGSTEN - RADIATION EFFECT GEMP-23A 16-3	S TH-36 N63-14005 09-08
TANTALUM ALLOYS - STRESS RUPTURE, DISPERSION, DUCTILITY, WELDING	VELOCITY CONTROL SYSTEM FOR TAPE RECORDERS UTILIZING SPLIT-PHASE INDUCTION MOTORS TR-63-1 N63-16165 13-09
ASD-TDR-62-594, PT. 11 N63-17882 16-1	TAPE RECORDERS FOR NIMBUS SATELLITE - ELECTRONIC
INTERMETALLIC PROTECTIVE COATING FOR TANTALUM AND NIODIUM ALLOYS SUBJECTED TO REENTY VEHICLE ENVIRONMENT - REFRACTORY METAL	AND MAGNETIC SYSTEMS, CONTROL OF RECORD & READOUT NASA-RP-30 No3-21275 21-21
NASA-CR-50540 N63-18416 17-1	7 HAGNETIC TAPE RECORDING AT VERY SLOW TAPE SPEEDS AFCRL-62-706 N63-23595 24-09
MECHANICAL AND PHYSICAL PROPERTIES OF TANTALUM AN NIOBIUM BASED ALLOYS N63-19032 18-1	
PROCESSING AND PROPERTIES OF TANTALUM RICH ALLOYS IN TANTALUM-TUNGSTEN-HAFNIUM SYSTEM	OSCILLATING IN SUPERSONIC FLOW
WANL-PR-M-004 N63-19144 18-1	THE STATE OF THE SHARE SHARES TO SHARE STATE OF THE STATE
DEFORMATION AND ANNEALING OF TANTALUM AND TANTALUM-TUNGSTEN ALLOYS AT CRITICAL STRESS LA-2871 N63-19631 19-1	HEXAGONAL PLANFORM OSCILLATING IN SUPERSONIC
DISLOCATION INTERSTITIAL BINDING ENERGIES, STRAIN	
AGING OF TANTALUM-OXYGEN ALLOY AND FLOW STRESS STUDIES TO DETERMINE YIELD IN REFRACTORY METALS N63-19660 19-1	ADIABATIC APPROXIMATION FOR DYNAMICS OF A PARTICLE
TANTALUM ALLOY SHEET - PILOT PRODUCTION AND EVALUATION	BUCKLING OF TAPERED PLATES USED IN AIRCRAFT
WANL-PR-M-005 N63-20125 20-1	8 STRUCTURES
TANTALUM ALLOY ADDITION TO NICKEL-BASE ALLOYS -	ARC-REM-3309 N63-13967 09-33 SKIN TAPER AND AEROELASTIC PROPERTIES OF WINGS
NASA-RP-26 N63-21329 21-1	8 ARC-CP-642 N63-16415 14-03
STRESS RUPTURE AT ELEVATED TEMPERATURE OF TANTALUM ALLOY	TAR CF ASPHALT TO EET THIS AND PROUDE HE DESCRIPTION
A072 N63-21880 22-1	
TANTALUM ALLOY FOR HIGH PERFORMANCE PROPULSION SYSTEM COMPONENTS N63-22804 23-1	WADD-TR-61-72, VOL. XI N63-10714 02-19
	TARGET CF MULTIPLE AIRBORNE TARGET TRAJECTORY SYSTEM /MATTS HYPERVELOCITY IMPACT PHENOMENA
WANL-PR-H-006 N63-23348 24-1	8 N63-10723 02-33
MTALUM COMPOUND PYROFIBER, FREE-STANDING, PYROGRAPHITE AND	MISSILE RELIABILITY ESTIMATION N63-11161 03-20
PYROCARBIDE N63-13844 00-1	MINTER TOWNS TOWNS TOWNS
HIGH TEMPERATURE ROCKET NOZZLE MATERIAL - REACTIO	OF PHOTOGRAMMETRIC RESECTION
OF TANTALUM CARBIDE WITH CARBON DIOXIDE AS FUNCTION OF PRESSURE & TEMPERATURE	COHERENT DETECTOR FOR PULSED RADARS
THE ALL TO THE THE THE TEST AND THE SECOND STATE OF THE SECOND STA	TRANSURANIUM ELEMENTS - EXTRACTION. HIGH FLUX
SA MAGNETIC TAPE	ISOTOPE REACTOR TARGET FABRICATION, CORROSION, AND PREPARATION OF URANIUM-232
LIQUID PROPELLANT SENSITIVITY, SHOCK TUBE AND FLASH-IRRADIATION TESTS ON NITROGLYCERINE	QUANTITATIVE CALCULATIONS OF INTENSITY OF

TEC Si Si

CHARACTERISTIC X-RAYS EXCITED BY ELECTRON BEAM IN THICK TARGETS N63-12651 06-23	EFFECT OF TARGET TEMPERATURE ON PROJECTILE PENETRATION AND CRATERING
HYPERVELOCITY IMPACT - SPALLATION PRODUCT BY HIGH VELOCITY PROJECTILES PENETRATING THIN METALLIC TARGETS N63-14748 11-33	NACA-RM-L58E14 N63-18043 16-18 TARGET STRENGTH INFLUENCE ON HYPERVELOCITY CRATER FORMATION IN ALUMINUM
HIGH SPEED BALLISTIC IMPACT AND TARGET PENETRATION	BRL-MR-1480 N63-19018 18-18
APGC-TDR-63-22 N63-14878 11-30 EVALUATION OF USE OF METAL SPHERES AS TARGETS FOR	HYPERVELOCITY FRAGMENT IMPACT AND PENETRATION INTO ALUMINUM RM-3529-PR N63-19789 19-33
GUIDED MISSILE RADAR SYSTEMS RE-TR-62-6 N63-16448 14-08	PENETRATION OF METAL TARGETS OF VARIOUS THICKNESSES BY HYPERVELOCITY PROJECTILES
MECHANISMS OF DAMAGE TO THIN TARGETS BY IMPACT OF HYPERVELOCITY PROJECTILES	AVVIA WELLATHAN AUT & MINARY MY N63-22345 23-23
TM-63-201 N63-16481 14-30 BALLISTIC TRAJECTORIES FOR MOVING TARGET RELATIVE	FUNDAMENTAL MECHANISM OF DAMAGE TO THIN TARGETS BY HYPERVELOCITY PROJECTILES TR63-225 N63-23793 24-23
TO EARTH ROTATION SWC-TDR-63-25 N63-16777 14-29	TARGET RECOGNITION
ENERGY DOSAGE IN LUCITE PHANTOMS FROM SECONDARY EMISSION OF PROTON IRRADIATED TARGETS	CF DETECTION CF DETECTOR CF RANGE
ORNL-3457 N63-19520 19-09 ULTRAVIOLET TARGET RADIOMETER FOR INCORPORATION IN	CF RANGE CF TRACKING SENSITIVITY OF SEMICIRCULAR CANALS DURING WEIGHTLESSNESS TESTED BY VISUAL PERCEPTION OF
NIKE-JAVELIN ROCKET INSTRUMENT PAYLOAD N63-19763 19-15	TARGET ROTATION SAM-TDR-62-148 N63-16126 13-16
LAUNCH TO MISSION COMPLETION TARGETING TECHNIQUES, COMPUTER PROGRAMMING FOR LUNAR AND INTERPLANETARY FLIGHT PROGRAM - RANGER/MARINER PROGRAM - AIAA PAPER 63-410 M63-20320 20-29	OBSERVER TOLERANCE OF FORM TRANSFORMATION AS FUNCTION OF FORM COMPLEXITY - TARGET RECOGNITION AND PERCEPTION PSD-TDR-63-135 N63-19129 18-14
IMPROVING CONTRAST OF MILITARY TARGET FOR	MILITARY SIGNIFICANCE OF TARGET IDENTIFICATION IN
APPLICATION OF TELEVISION GUIDANCE SCHEME - VIDICON SENSOR	AERIAL RECONNAISSANCE - IN-FLIGHT INTERPRETATION BY VISUAL PERCEPTION N63-19251 18-14
RE-TR-63-3 N63-21445 22-22 PLANE SHOCK WAVE INDUCED IN TARGET BY IMPACT WITH FLAT PLATE ACCELERATED TO HIGH VELOCITY BY EXPLOSIVE CHARGE	TARGET THICKNESS ACCELERATOR TO STUDY IMPACT AND PENETRATION EFFECTS UPON TARGET THICKNESS - ALUMINUM TARGETS APGC-TOR-63-2 No3-12163 05-23
DASA-1397 N63-22243 23-11	QUANTITATIVE CALCULATIONS OF INTENSITY OF
PREPARATION OF BACKED AND UNBACKED HEAVY-ELEMENT TARGETS UCRL-6989 N63-22561 23-23	CHARACTERISTIC X-RAYS EXCITED BY ELECTRON BEAM IN THICK TARGETS N63-12651 06-23
HYDROGEN ION BEAM NEUTRALIZATION - NEUTRAL, POSITIVE, AND NEGATIVE IONS FROM RARE GAS TARGET ASD-TDR-63-41 N63-22638 23-23	TARGET PENETRATION DIFFERENCE OF HIGH AND LOW VELOCITY SHOTS PREDICTED BY POWER LAW FORMULA APGC-TDR-63-16 N63-13996 09-20
EFFECTS OF INPUT VARIABLES ON MULTI-TARGET ALPHABETIC DISPLAYS	INTERNAL IONIZATION EFFECT OF HEAVY-ION-INDUCED NUCLEAR REACTIONS AS FUNCTION OF TARGET THICKNESS UCRL-10888 No3-21161 21-23
ESD-TDR-63-546 M63-22926 23-14	TARTAR MISSILE
S JINDIVIK TARGET AIRCRAFT	HIGH SPEED WIND TUNNEL TEST OF TARTAR/TERRIER MISSILE - TAIL FIN OSCILLATION IN TRANSONIC FLOW TM-348-33.6-11 No3-16747 14-03
FARGET DISCRIMINATION CF DETECTION	TAUBERIAN THEOREM
CF TRACKING PROBLEM SOLVING - SEQUENTIAL ANALYSIS OF TARGET DETECTION - PATTERN RECOGNITION	GENERALIZATION OF TAUBERIAN THEOREMS MRC-324 N63-14453 10-20
AMRL-TDR-62-148 N63-14489 10-14	TASK DEVELOPING TASK-SEQUENCER IN FLIGHT SIMULATORS
VISIBILITY OF SINGLE AND GROUPED PATCHES OF LIGHT AT NIGHT TO DARK-ADAPTED OBSERVER - VISUAL TARGET DISCRIMINATION COUNTERMEASURE APPLICATIONS	AMRL-TDR-63-17 N63-15367 12-10 TAYLOR THEOREM
N63-16226 13-14 VISIBILITY OF TARGETS PRESENTED IN TARGET-	TAYLOR EXPANSIONS OF THE HYDRODYNAMIC EQUATIONS N63-10566 01-11
BACKGROUND COMPLEXES OF NONUMIFORM LUMINOSITY RADC-TDR-63-184 N63-18635 17-01	TEACHING MACHINE AUTOMATIC COMPUTER SYSTEM AS A TEACHING MACHINE R-160 M63-13814 09-20
ARGET PEMETRATION EFFECT OF VACUUM ON PENETRATION CHARACTERISTICS OF PROJECTILES INTO FINE PARTICLES NASA-TN-D-1519 N63-12244 05-23	EVALUATION OF AUTOINSTRUCTIONAL DEVICE USED IN HUMAN TECHNICAL TRAINING MRL-TOR-62-78 N63-15467 12-14
HIGH SPEED BALLISTIC IMPACT AND TARGET PENETRATION APGC-TOR-63-22 N63-14878 11-30	COGNITIVE HYBRID INTELLIGENT LEARNING DEVICE
RANGE-EMERGY RELATIONSHIPS FOR PROTONS AND ELECTRONS PENETRATING ALUMINUM, SILICON AND	RADC-TDR-63-228 N63-18170 16-09 TEAR CF CLEAVAGE
SILICON DIDXIDE NRL-5828 N63-17142 15-20	CF CLEAVAGE

M63-17142 15-20

-18 ER -18 VTO

23 BY 23

16

14

14

23

3

0

3

3

0

S DIGITAL TECHNIQUE		AND LIGHT SCATTERING P
5 PULSE, PULSE TECHNIQUE	TRACKING SYSTER	MAXIMUM RELAXATION TIM POLYTETRAFLUGROETHYLEN ONR-TR-RLT-64
TECHNOLOGY /GEN/ SA AEROSPACE TECHNOLOGY SA HILITARY TECHNOLOGY SA REACTOR TECHNOLOGY	THE TOWN METERS TOWN	SA SENSAGE INSULTRY BOX
LENIN PRIZES COMPETITION, 1963 TECHNOLOGY - COM JPRS-17261	- SCIENCE AND N63-12019 05-01	THERMAL DEGRADATION OF CONSTANT TEMPERATURE
INTERNATIONAL MEETINGS ON SCIEN AGRICULTURE, AND MEDICINE - 196	3 TO 1966	TEKTITE SIMULATION OF LUNAR LU PROTON EXCITATION OF 1
GUIDE TO SCIENTIFIC AND TECHNIC EASTERN EUROPE		AFCRL-62-1099
NSF-62-49 NEED FOR LEARNING IN SPACE AGE	- SCIENCE AND	AND ISOTOPIC COMPOSITI
TECHNOLOGY INDUSTRIAL DISTRIBUTION OF NASA	TECHNOLOGY	SYSTEMATIZING TEXTITE METEORITIC APPLICATION NASA-TT-F-114
INDUSTRIAL USAGE OF WASA-GENERA	TED SPACE	TRAJECTORY OF TENTITES SAO SPECIAL REPT105
NASA-CR-50630 UTILIZATION OF NASA SPACE TECHN	N63-18314 17-01	LUNAR ORIGIN OF TEXTIS
INDUSTRY NASA-CR-50648	N63-18316 17-01	TEKTITES & FUSION OF S
UTILIZATION OF SPACE TECHNOLOGY IN MIDMESTERN INDUSTRY NASA-CR-50649	The state of the s	COMETARY NECHANISH FOR
SCIENCE, ENGINEERING AND TECHNO	LOGY IN THE SPACE	ELECTROMAGNETIC PARAM
SPACE FLIGHT TECHNOLOGY AND RES	EARCH PROJECTS IN	MORPHOLOGY OF THE LUN
INTEGRATED CIRCUIT TECHNOLOGY -		SPECTROSCOPIC ANALYSI
HIGH TEMPERATURE LIQUID METAL T DYNAMICS, HEAT TRANSFER, PHYSIC BNL-814/PR-3/	AL PROPERTIES	AERODYNAMIC EVIDENCE
IMPORTANCE OF SPACE PROGRAM - E EXPLORATION, SCIENCE, & TECHNOL	CONOMIC RETURNS IN	TEKTITES IN EARTH ATM
NASA-TH-X-50290	N63-21051 21-29	LUMAR ORIGIN OF TEXT!
HIGH-TEMPERATURE LIQUID-METAL T BNL-825/PR-4/ TEFLON	N63-23177 24-18	ORIGIN OF TEKTITES AS OF NATURAL SATELLITES NASA-RP-113
FABRICATION AND ASSEMBLY OF A 1 MERCURY ELECTRODE	NA RT THE WILLIAM THE TRADE	TELECONHUNICATION SPACE PROGRAMS SUMMAR PROGRAMS - TELECOMMUN CONTROL - PROPULSION
REACTOR TECHNOLOGY - REACTOR CO GADOLINIUM SEPTA, SPACE-TIME SY CERAMIC FUEL WATER, TEFLON, 6 A WAPD-BT-28	NOTHESIS PROBLEMS, COLLED-IM TUBE N63-15261 12-10	REGULATORY ASPECTS OF
THERMAL STABILITY OF TEFLON IN AUSTENITIC STAINLESS STEEL AND MATERIALS	CONTACT WITH OTHER STRUCTURAL	PRELIMINARY PLAN FOR
THIN POLYTETRAFLUGROETHYLENE RE	SIN LUBRICANT	MARINER II DEEP SPACE
THIN WALL TEFLON FRUSTRUM FABRI	M63-15272 12-17	SPACE PROGRAMS SUMMAN DEC 1962 - SPACE PROG PROPULSION
SPACE ENVIRONMENT EFFECTS ON IN	SULATING PROPERTIES	SPACE PROGRAMS SUMMAR
POLYTETRAFLUORGETHYLEME PLASTIC	S DATA SHEETS	1962 TO JAN 1963 - PR INSTRUMENTS, MECHANIC JPL-SPS-37-19, VOL. I
D\$-106	N63-20284 20-19	MARTINER /VENUS 62/ FL

THO FORMS OF POLYTETRAFLUORDETHYLENE SPHERULITES

AND LIGHT SCATTERING PATTERNS TEACHER 191
MAXIMUM RELAXATION TIMES IN POLYTETRAFLUOROETHYLENE ONR-TR-BLT-64 N63-23001 24-19
TEFLON EXPULSION BLADDERS FOR SPACECRAFT BARAGES SAME SSD-TOR-63-103-/IV/ N63-23364 24-27
THERMAL DEGRADATION OF TEFLON IN VACUUM AT CONSTANT TEMPERATURE AND CONSTANT HEATING N63-23775 24-13
KTITE SIMULATION OF LUMAR LUMINESCENCE - ULTRAVIOLET AND PROTON EXCITATION OF TEXTITE & METEORIC MATERIAL AFCRL-62-1099 N63-11017 03-29
ORIGIN OF TEXTITES - URANIUM AND LEAD IN SAMPLES AND ISOTOPIC COMPOSITION OF THE LEAD NASA-TT-F-113 M63-11611 04-29
SYSTEMATIZING TEKTITE DATA USING MANUAL CARD SORT, METEORITIC APPLICATION MASA-TT-F-114 M63-11612 04-20
TRAJECTORY OF TEXTITES SAO SPECIAL REPT105 N63-11023 04-29
LUNAR ORIGIN OF TEKTITES - AERODYMANIC HEATING NASA-TN-D-1556 N63-12929 07-29
TEKTITES & FUSION OF SANDSTONE TO GLASS IN SOLAR
COMETARY HECHANISM FOR TEXTITE FORMATION: JPL-TR-32-356 N63-13452 12-05
ELECTROMAGNETIC PARAMETERS OF METEORITES, TEKTITES, GLASSES, AMD ROCKS NO.2-13403 13-05
EVIDENCE OF GRANITIC ROCKS IN LUNAR CRUST FROM MORPHOLOGY OF THE LUNAR SURFACE - TEKTITES M63-17108 15-05
SPECTROSCOPIC ANALYSIS OF GAS BUBBLES IN TEKTITES - NEOM, HELIUM & OXYGEN N63-17480 16-07
AERODYNAMIC EVIDENCE OF ENTRY AND ABLATION OF TEKTITES IN EARTH ATMOSPHERE NASA-TR-R-134 NASA-TR-R-134 NASA-TR-R-134
LUNAR ORIGIN OF TEKTITES - ATMOSPHERIC ENTRY DYNAMICS
ORIGIN OF TEKTITES AS AERODYNAMIC FUSION STRIPPING OF NATURAL SATELLITES NASA-RP-113 N63-23164 24-05
SPACE PROGRAMS SUMMARY NO. 37-17 - VOL IV, SPACE PROGRAMS - TELECOMMUNICATIONS - GUIDANCE AND CONTROL - PROPULSION JPL-SPS-37-17, VOL. IV N63-10939 02-01
REGULATORY ASPECTS OF SATELLITE COMMUNICATION SYSTEM
PRELIMINARY PLAN FOR GLOBAL TIMING SYNCHROMIZATION
MARINER II DEEP SPACE TELECOMMUNICATIONS
SPACE PROGRAMS SUMMARY NO. 37-18 - VOL 1V. OCT TO DEC 1962 - SPACE PROGRAMS, GUIDANCE, ENGINEERING, PROPULSION JPL-395-37-18, VOL. 1V. M63-13485 GR-01
SPACE PROGRAMS SUMMARY NO. 37-19 - VOL 1V. DEC 1962 TO JAN 1963 - PROPULSION, TELECOMMUNICATIONS, INSTRUMENTS, MECHANICS, GUIDANCE JPL-SPS-37-19, VOL. IV M63-13592 08-01
MARINER /VENUS 62/ FLIGHT TELECOMMUNICATION SYSTEM FOR DAYA TRANSMISSION AND TRAJECTORY DETERMINATION

100

10

JPL-TR-32-377 N63-14466	10-08	USNRDL-TR-544	N63-12083 05-08
TELECOMMUNICATIONS RESEARCH - RADIO PROPAGAT IONOSPHERIC ABSORPTION, WEATHER RADAR, LF RA NOISE, AND SPACE TRACKING - SOUTH AFRICA	010	TRACKING SYSTEM	NTERFEROMETER ROCKET
CSIR-T-26 3-644 N63-15368			FOR SUBCOMMUTATED FR
SPACE PROGRAMS SUMMARY NO. 37-20 - VOL 4, FE MAR 1963 - GUIDANCE, PROPULSION, TELECOMMUNI JPL-SPS-37-20, VOL. IV N63-16173	CATION	SUBCARRIER TELEMETRY SYST NORE-T-231	N63-12830 06-08
TELECONNUNICATIONS FOR MERCURY PROJECT	AND STATE OF THE PARTY OF THE P	MINIATURE TELEMETRY TRANS	MITTER FOR UPPER N63-13043 07-08
ELEMETER		MAGNETIC CORE VOLTAGE-TO-	N63-13101 07-00
TELEMETERS FOR POWER MONITORING WITHIN REACT	OR	BIBLIOGRAPHY - RADIO TEL	MEDICAL CHARGE AND MEDICAL
GEAP-4229 N63-21921	22-09	ACCELERATIONS	094 714 N63-13296 1007-08
PACPORTIONAL COUNTER SPECTROMETER FOR SOLAR MEASUREMENT — DESIGNED TO BE MOUNTED ON AERO ROCKET TELEMETERING MONOCHROMATOR	BEE HI	DIRECT MEASUREMENT OF INI FREQUENCY MEASUREMENTS, 1 RAC-1168	DEX OF REFRACTION - TELEMETRY N63-13748 08-12
AFCRL-62-1105 N63-13801	09-15	NP3-11120 PRINTED	TECHNOLOGY
X-BAND TELEMETERING FOR RADIO INTERFERENCE - REENTRY COMMUNICATION IN EARTH ORBIT REENTRY	14 CWW 7 II	SYMPOSIUM ON APPLICATION PHYSIOLOGY, CODING, TRANS	MISSION, AND TELEMETRY
VEHICLE CP-63-663 N63-14953	11-08	MAGNETIC ELEMENTS IN CODE	-TYPE TELEMETRY SYSTEMS N63-14017 09-09
LARGE ENVIRONMENTAL TELEMETERING SYSTEM FOR OCEANOGRAPHIC AND WEATHER STATION UTILIZATIO	100	MICROMETEORITE PENETRATIO	WASAMCHIO DESDITION OF THE RE
NRL-5902 N63-22663		VII SATELLITE - 1959 IOTA	
LEMETRY F DAYA TRANSMISSION F SATELLITE TRANSMISSION	MEGA	TELEMETRY COMPONENTS PERI BRANT III ROCKET DYNAMIC	
F SPACE COMMUNICATION TRENDS IN MISSILE AND SPACE RADIO TELEMETRY		TRANSMITTER & ANTENNAS ER8-626	N63-14798 11-08
CODING METHOD FOR A REPORTING SYSTEM IN SPACE	01-08 E	ANALOG TELEMETRY TRANSMIT	PCM TELEMETRY
TRAVEL NGL PAPER-43 SANDER 1 1 10039 11 N63-10039	01-20	AND RESEARCH FADJECTS (N	
FLIGHT MEASUREMENTS IN SMALL ROCKET VEHICLES MGL PAPER-45 N63-10041	01-15	MOLECULARIZED PULSE-CODE TRANSMITTING SET	N63-15425 12-08
SYNCHRONIZATION OF TELEMETRY CODES JPL-TR-32-304 N63-10249	39%2.) TXST	SPACE SCIENCE - TELEMETRY SPACE VEHICLE CARRIER SYS	TEMS - FROM V2 TO SATURN N63-15998 13-08
PERFORMANCE OF NRC TELEMETRY COMPONENTS IN F BLACK BRANT III DYNAMIC FIRINGS ERB-619 N63-10462		ALERT, A ONE MEGACYCLE CO RECEPTION AND REAL TIME F DATA FOR PRELAUNCH CHECK NSS-2379	PROCESSING OF TELEMETRY
SAMPLING RATE AND ALIASING IN TIME-DIVISION TELEMETRY SYSTEMS ASD-TR-61-553 N63-10481	01-08	PERFORMANCE OF FLAT-STAGG RECOVERING TONE BURST TEL	EMETRY SIGNALS
ANTENNA TO COVER 220 THROUGH 2400-HC TELEMET BAND N63-10527			N63-16221 13-08 ZATION - DATA BANDWIDTH
MARROW-BAND TELEMETRY OF NONRECURRENT PULSES NRL-5846 NG3-10667	02-08	REDUCTION AND TRANSMITTER	N63-16843 14-08
BIOTELEMETRY FOR SPACE FLIGHTS JPRS-16600 N63-10980	11/03/14	TELEMETRIC FILTER DESIGN RECOVERY OF TONE BURST TO NASA-CR-50113	LEMETRY SIGNALS
MULTIPLEX TECHNIQUE FOR TELEMETRY - WAVEFORM N63-11300		RELAY COMMUNICATION SATEL	LITE - REAL TIME THAR BE
TRANSISTORIZED MINIATURE 15-CHANNEL PULSE-TI TELEMETRY MODULATOR N63-11585	ME 04-08	GROUND OPERATIONAL SUPPOR	
MINIATURIZED FIFTEEN-CHANNEL TELEMETRY MODUL N63-11586	ATOR 04-08	TELEMETRY AND COMMUNICATE	ON NETWORK FOR APOLLO AND N63-17968 16-30
HULTISIGNAL CODING FOR SPACE TELEMETRY N63-11702	3442	SYNCHRONIZATION OF DECISION OF	N63-18318 17-08
MULTIPLEXING SUBSYSTEM FOR TELEMETRY SYSTEM		NIMBUS SATELLITE - PULSE-	CODE-MODULATED TELEMETRY N63-18616 17-30
ALQUETTE SATELLITE FOR IONOSPHERIC RESEARCH	SAPE	NIMBUS SATELLITE - VACUUM POMER TELEMETRY, ALTITUDE	CHAMBER TESTING, SOLAR-
NASA FACTS-F-12-62 N63-11963	05-32	LOGIC AND S-BAND TRANSHIT	N63-18620 17-30
RADIO-FREQUENCY INTERFERENCE IN RADIAC-TELEM		11.47.11.11.11.11.11.11.11.11.11.11.11.11.11	MD3-18050 11-30

bà:

55

2 8 19

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2

9

304-A RADIATION AND ITS ATTENUATION IN UPPER 13-1	PROGRAMMING ASTRONOMIC OBSERVATION PROGRAMMING ASTR
NUMERICAL COMPUTATION OF TRANSMISSION & REFLECTION COEFFICIENTS OF INHOMOGENEOUS PLASMA LAYER — APPLICATION TO TELEMETRY PROBLEM IN REENTRY R-51 AM M63-20440 3 20-24	STELLAR & PLANETARY OBSERVATIONS AT 10 HICRONS MADE BY PORTABLE INFRARED TELESCOPE & PHOTOMETER UTILIZING MERCURY DOPED GERMANIUM DETECTOR NO3-16703 14-29
TELEMETRY RECEIVING STATION AT ANDDYA RANGE - LAYOUT AND MOUNTING NSRC-5 N63-20908 21-08	VARIABLE STAR OBSERVED WITH PHOTOELECTRIC PHOTOHETER AND TELESCOPE - SPECTROGRAM N63-17881 16-05
TELEMETRY AND ROCKET EXPERIMENTS AT ANDOYA 100-00 00111-600 100-1001 100-10	SCINTILLATION COUNTER TELESCOPE FOR CHARGE AND ENERGY SPECTRA STUDY OF PRIMARY COSMIC RADIATION NASA-TN-D-1757 NASA-TN-D-1757 18-15
PASSIVE SURFACE TEMPERATURE TELEMETRY FOR THE GUN-LAUNCHED FREE FLIGHT MISSILE MODELS NO.17-62-75 N63-21289 21-08	TELESCOPE WITH CASSEGRAIN OPTICS - INFRARED SPECTRUM AND POLARIMETRY STUDIES OF SATELLITES,
SPACECRAFT BIOLOGICAL TELEMETRY SYSTEMS NG3-21498 22-16	MOON, ASTEROIDS, AND PLAMETS AFCRL-63-864 N63-20776 21-05 REFRACTORY TELESCOPES FOR PLANETARY OBSERVATIONS -
TELEMETERING DISTANCES AND POWER SUPPLIES FOR METEOROLOGICAL TELEMETERING DEVICES	ASTRONOMY 2012/19/20 419 11 HOWING3-21121 4 21-05
RSIC-59 TI-EAN N63-21685 22-21 DESIGN OBJECTIVES FOR TELEMETRY UNF TRANSMISSION	TELESCOPE TO IDENTIFY ELECTRONS IN PRESENCE OF PION BACKGROUND CERN-63-25 N63-23049 24-15
LINKS NAVWEPS-8146 N63-22132 22-08	PRISM ATTACHMENT TO THEODOLITE TELESCOPE FOR AINING AT CENTER OF SOLAR DISK
ASSIGNING MEASUREMENTS TO TELEMETRY CHANNELS TO	FTD-TT-62-1090/162
RG-TR-63-13 N63-22456 23-08 UTILIZATION OF MISSILE TELEMETRY CAPACITY THROUGH	TELESCOPIC OBSERVATIONS OF STELLAR SCINTILLATION — ZENITH DISTANCE & APERTURE EFFECTS FTD-TT-02-1430/162 M03-23727 24-29
DATA BAND WITH COMPRESSION AND TRANSMITTER BANDWIDTH RG-TR-63-17 AND ARRANGE No.3-22514 23-08	PHOTOSERVOSYSTEM FOR TRAINING TELESCOPES FTD-TT-62-1528/16264
TELEMETRY DEVICES FOR DENTAL RESEARCH SAM-TOR-63-36 N63-22980 23-16	SERVOSYSTEMS WITH SPHERICAL-COORDINATE CONVERTERS FOR OBSERVATORY TELESCOPE AND DOME MOVEMENTS
LITERATURE SURVEY OF TELEMETERING SYSTEMS FOR THE	2FT0-TT-62-1194/16264, TASSAUG DIRUNG3-2376794024-09 TELETYPING 15-0844
\$10-63-284 N63-23047 24-16	INPUT OF FLIGHT PLAN DATA FOR AIR TRAFFIC CONTROL
TELEPHONE TRANSMISSION SYSTEMS FOR SATELLITE LINKS N63-11353 03-08	BLOCK ERROR RATES AND ERROR DISTRIBUTIONS FOR
BLOCK ERROR RATES AND ERROR DISTRIBUTIONS FOR DIGITAL DATA TRANSMISSION OVER TELEPHONE AND	DIGITAL DATA TRANSMISSION OVER TELEPHONE AND TELETYPE CIRCUITS 133 100 100 100 100 100 100 100 100 100
DESCRIPTION OF CODE BIPHASE DATA TRANSMISSION	HINIATURE ELECTROSTATIC VIDICON CAMERA AND SELVS-E-104 & 320 - SCIENTIFE MANGS-10208AM-01-15
TRANSHISSION SOME SELEPHONE CIRCUITS FOR DIGITAL DATA THE TRANSHISSION N63-14992 11-20	ANALOGY OF CHARACTERISTICS OF REPRODUCTION IN
HIGH CAPACITY COMMUNICATIONS SYSTEM FOR TELEPHONE NETWORK RADC-TOR-63-358	JPRS-16930 M69-11464 03-23 PREFLIGHT ANALYSIS AND LUMAR PHOTOMETRIC MODEL -
TELESCOP Enport-East / Scale	RANGER SPACEGRAFT TV SYSTEM JPL-TR-32-384 N63-13449 08-29
SA RADIO TELESCOPE GEOPHYSICAL ASPECTS OF COSMIC RAYS - DIRECTION OF ANISOTROPY - TELESCOPES AFCRL-62-652 N63-10105 - 01-28	RANGER PROJECT - TELEVISION SYSTEM ANALYSIS AND LUNAR PHOTOMETRIC MODEL - RANGERS III, IV AND V SPACE PROBES
OPTICS DEVELOPMENT FOR 43-INCH LUNAR TELESCOPE, PYROMETER DEVELOPMENT FOR LUNAR TEMPERATURE	JPL-TR-32-304/REV./
MEASUREMENT CHA - THE TAR SAME AFCRL-62-1100 N63-11018 03-29	TELEVISION CLOUD PHOTOGRAPHY -DAY N63-15619 NF-12-32
ZONE OBSERVATIONS WITH LARGE ZENITH TELESCOPE	PHOTOCATHODE INTERRACTION WITH STORAGE TARGET PLATES - TELEVISION TYPE OPTICAL AMPLIFIERS ASD-TR-61-631 N63-15738 12-09
APLANATICALLY STABILIZED TELESCOPE OBJECTIVE A63-11558 04-05	OESIGN STUDY FOR VISUAL FLIGHT SIMULATOR /YFS-2/ - VOL 1, TECHNICAL RESULTS, MULTICHANNEL TELEVISION
FLICKERING OF STAR IMAGES IN TELESCOPES	SS-1211 PALE AND THE METHODS OF THE TOTAL TO STATE OF THE
UKRANIAN SGLAR DIFFRACTION SPECTROGRAPHIC TELESCOPE N63-12204 05-05	NIMBUS SATELLITE - SYSTEMS DESIGN - DATA ACQUISITION - TELEVISION TRANSMISSION - ORBITAL MECHANICS - 180-1809 17-30
TEMPERATURE EFFECTS IN PHOTOMULTIPLIERS AND ASTRONOMICAL PHOTOMETRY N63-13042 07-05	VISUAL SIMULATION TECHNIQUES FOR ASTROMAUTICAL FLIGHT TRAINING - HIGH RESOLUTION TELEVISION -
SOVIET AUTOMATIC CONTINUOUS CONTROL SYSTEM FOR	ELECTRONIC PLANETARIUM AMRL-TDR-63-54, VOL. 1 H63-19434 19-10

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TEMPERATURE-DEPENDENCE OF REHOTE AREA GAMMA

LIGHTING EQUIPMENT FOR TELEVISION AND RADIO ANTENNA TOWERS - MARGINAL VISUAL FLIGHT RULES MEATHER N63-19935 19-22	TELLURIUM ALLOY ABSTRACTS ON SOLID STATE PROPERTIES OF BISMUTH AND TELLURIUM ALLOYS AND COMPOUNDS
COMPARISON OF PHOTOGRAPHIC, CATHODE RAY TUBE, AND TELEVISION RESOLUTIONS - DEFINITION AND CONVENTION R62XP-4 N63-20726 21-09	SE-62-62 TELLURIUM 119 EFFECT OF ANGULAR HOTION OF NUCLEUS ON RATIO OF
EQUIPMENT FOR CONVERTING RADAR SCAN DATA TO TV DISPLAY FOR AIR TRAFFIC CONTROL	ISOMERS, TE-119 & METASTABLE TE-119, FORMED BY LOW-ENERGY ION BOMBAROMENT UCRL-10850 N63-20899 21-25
80-91 N63-20737 21-08	TELSTAR SATELLITE
LUMAR TELEVISION CAMERA THREE MOTION MANIPULATOR — DESIGN, CONSTRUCTION, AND TESTING NASA-CR-50992 N63-21118 21-08	TELSTAR COMMUNICATION SATELLITE N63-11150 03-09
IMPROVING CONTRAST OF MILITARY TARGET FOR APPLICATION OF TELEVISION GUIDANCE SCHEME -	FIVE KILOWATT C-BAND TRAVELING WAVE TUBE FOR THE TELSTAR GROUND TRANSMITTER 1 N63-11219 03-09
VIDICON SENSOR RE-TR-63-3 N63-21445 22-22	COMMUNICATIONS SATELLITE PROGRAM - ECHO. TELSTAR, RELAY, AND SYNCOM PROJECTS
TRANSMISSION OF U.N. GENERAL ASSEMBLY OPENING BY RELAY I AND SYNCOM II VIA TELEVISION AND RADIO N63-21991 22-08	ARS PAPER-2617-62 N63-11253 03-30 COMMUNICATION SATELLITES - ECHO I, ECHO II, SCORE, COURTER, TELSTAR, RELAY AND SYNCOM
10.2008 N. C. 1000/118 N. C.	N63-17758 16-32
TY SCAN LINE AND SCAN PATTERN IN SYMBOL EONSTRUCTION ESD-TDR-63-440 N63-22531 23-09	EARLY COMMUNICATION SATELLITE SYSTEM OF RELAY AND TELSTAR SATELLITE GENERAL TYPE
AUTOMATIC PICTURE TRANSMISSION /APT/ TELEVISION CAMERA SYSTEM FOR METEOROLOGICAL SATELLITES	NASA-CR-52150 N69-23601 24-08 TEMPERATURE
NASA-TN-D-1915 N63-23679 24-21 TELLURIC CURRENT CF EARTH CURRENT CF GEOELECTRICITY USSR ABSTRACTS - TELLURIC CURRENTS, METEOROLOGY OF	SA ATMOSPHERIC TEMPERATURE SA BASE TEMPERATURE SA CRYOGENIC TEMPERATURE SA ELECTRON TEMPERATURE SA HIGH TEMPERATURE SA HIGH TEMPERATURE SA GRITION TEMPERATURE
UPPER ATMOSPHERE, SOLAR RADIATION IN IONOSPHERE AND ATMOSPHERIC ELECTRICITY AID-P-63-87 N63-19514 19-12	SA IONOSPHERIC TEMPERATURE SA SPACE TEMPERATURE SA SURFACE TEMPERATURE
MAGNETIC, TELLURIC CURRENT, AND VLF OBSERVATIONS DURING FISHBOWL TESTS	SA MALL TEMPERATURE SPECTROGRAPHIC INVESTIGATION OF TEMPERATURES IN A PLASMA JET ARC TUNNEL
UAG-R140 N63-21260 21-23	PA-TH-1001 N63-10087 01-26
TELLURIDE RADIATION EFFECTS ON THERMOELECTRIC GENERATORS - BISMUTH TELLURIDE	TEMPERATURE DETERMINATION FROM A CLOUD OF ALKALI VAPOR IN THE UPPER ATMOSPHERE AFCRL-62-1049 N63-10122 01-29
USNRDL-TR-581 17 17 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	TEMPERATURE FIELD OF A PLATE OF FINITE DIMENSIONS
SINGLE CRYSTAL BISHUTH TELLURIDE AFCRL-62-362 N63-11034 03-25	WITH CONTINUOUSLY ACTING HEAT SOURCE FTD-TT-62-1391/162 N63-10356 01-23
TRANSPORT PROPERTIES OF POLAR SEMICONOUCTORS WITH EMPHASIS ON LEAD TELLURIDE - USE IN THERMOELECTRIC POWER GENERATION	LOGARITHMIC TEMPERATURE DEPENDENCE OF THE PARTITION ENTROPY NOTS-TP-3021 N63-10567 01-23
MASA-TN-D-1695 N63-14276 10-15	SPRINGS OF WIDE TEMPERATURE RANGE
THERMOELECTRIC MATERIALS - RESISTIVITY & SEEBECK COEFFICIENT OF COPPER, NICKEL, & BISMUTH SULFIDES, CUPROUS TELLMIDE & LEAD TELLMIDE MIXTURES	ASD-TR-61-566 1247 2401140 1464 1463-10743 102-18
SRI-21 N63-16835 14-18	ATLAS OF DIURNAL AMPLITUDES OF AIR TEMPERATURE IN USSR JPRS-16667 N63-10981 02-21
LEAD TELLURIDE SEMICONDUCTOR - ELECTRIC AND ELECTROMIC PROPERTIES 05-113 N63-20297 20-25	TENSILE PROPERTIES OF FIVE LOW-ALLOY AND STAINLESS STEELS UNDER HIGH HEATING RATE AND CONSTANT
ELECTRONIC PROPERTIES OF CADMIUM TELLURIDE 05-101 N63-21787 22-09	TEMPERATURE JPL-TR-32-222 N63-11053 03-16
THERMOELECTRIC PROPERTIES OF SELENIDES AND TELLURIDES OF 58 AND 68 METALS AND THEIR SOLID SOLUTIONS N63-23496 24-19	TRANSIENT STRUCTURAL PERFORMANCE UNDER INTERMITTENT LOAD, TEMPERATURE, AND TIME N63-11080 03-33
TELLURIUM PHOTOCOMOUCTIVITY OF SEMICOMOUCTORS - ZINC-	TEMPERATURE, VOLUME, PRESSURE TABLES OF THE THERMODYNAMIC FUNCTIONS OF WATER UCRL-7118 03-23
TELLURIUM AND ZINC OXIDE N63-11970 05-25 STRUCTURE OF TELLURIUM SINGLE CRYSTALS STUDIED BY	MONOGRAM FOR FORECASTING DENSITY ALTITUDE M63-11444 03-19
ELECTRON TRANSPORT METHODS - VALENCE AND CONDUCTION BANDS N63-13278 07-25	TEMPERATURE PLUCTUATION AT A WETTING FRONT AND RATE ANALYSIS OF WATER PLOW IN SOILS
OPTICAL AND ELECTRICAL PROPERTIES OF SINGLE CRYSTAL TELLURIUM - EFFECT OF LATTICE DISLOCATIONS AND DOPING - ENERGY BAND STRUCTURE AFOSR-2648 13-25	TEMPERATURE COEFFICIENTS & SPECTRA IN HYDRIDE MODERATED SMAP REACTORS
PHOTOCOMOUCTIVITY AND HOISE IN SINGLE CRYSTAL	NAA-SR-7140 AM YREMOTON N63-118250AT04-04

PHOTOCONDUCTIVITY AND HOISE IN SINGLE CRYSTAL TELLURIUM N63-22074 22-09

RADIATION MONITORING SYSTEM USNORL-TR-604	N63-12475	06-15	PHOTODIODE AS SENSITIVE TEMPERATURE PROBE ILL-8-P N63-17174 15	-09
BLADE TEMPERATURES AND COOLANT PI CASCADE OF AIR-COOLED TURBINE RO NACA-RM-E58E20	TOR BLADES		ELECTRON AND ION TEMPERATURES IN IONOSPHERE GCA-TR-63-11-N N63-17318 15	-12
COLUMN TO THE PROPERTY OF THE PARTY OF THE P	N63-12516	06-02	BRAIN COMPONENTS WHICH CONTROL DAYGEN CONSUMPTE	ON
SCATTERING LAW FOR ROOM TEMPERATION 15526			AND BODY KINEMATICS AAL-TDR-62-15 N63-17347 15	-16
PULSED ULTRASONIC THERMOANEMOMETI ELIMINATE ERRORS DUE TO ELEMENT I EFFECTS			RELATION BETHEEN STRESS, STRAIN RATE, AND TEMPERATURE IN BEHAVIOR OF SOLID PROPELLANTS N63-17390 15	-26
	N63-12817	06-15 .	FLOW MEASUREMENT OF TRANSPORT PROPERTIES AT FLA	
SURVIVAL FACTORS UNDER PROLONGED	HYPOTHERMIA	Tigger III	TEMPERATURE - RADIOACTIVE TRACER	-11
MRL-TDR-62-130	N63-13006	07-16	APPLICATION OF DEBYE MODEL TO SCATTERING OF	HEA
OMBUSTION OF METALS - PROPELLAN URNING, REACTION KINETICS AND F	LAME TEMPERA	ATURE	CRYSTALS	-25
AL-86-P	N63-13109	07-26	STATE EQUATION OF GAS MIXTURE AT CRITICAL PRESS	URE
IPPER ATMOSPHERE OF THE PLANETS	N63-13168	07-29	AND TEMPERATURE UCRL-10650 N63-18056 16	-20
TEMPERATURE AND HEAT TRANSFER ME. LOCKET NOZZLE THROATS AND EXIT CONSTRUMENTATION TECHNIQUES, CHAR	ONES -	MARSENST	SILICON SEMICONDUCTORS - DEBYE TEMPERATURE DS-118 M63-20375 20	-25
AVWEPS-8022	N63-13629	08-13	STRUCTURE OF MAGNESTUM-THORIUM-ZINC-ZIRCONIUM	持是
TEMPERATURE AND WIND HEASUREMENT	S ABOVE 50-	M OVER	ALLOY - EFFECT OF TEMPERATURE, OXIDATION AND HYDROGENATION N63-20695 21	-10
VALLOPS ISLAND, VIRGINIA MASA-TN-D-1694	N63-13720	08-12	AERODYNAMIC MEASURING TECHNOLOGY - PRESSURE AND TEMPERATURE PROBES, VELOCITY MEASUREMENTS, FLOW	
CHANGES IN TEMPERATURE STRUCTURE	OF UPPER		CHARACTERISTICS, AND GAS DYNAMICS	(mm)
THOSPHERE - ROCKET POLLUTION	N63-14037	09-12	CHARLEST TO DEVICE TRATEPORT ASSESSMENT AND THE PROPERTY OF	-1:
EAN SEASONAL CROSS SECTIONS ALD	NG 80-DEGREE	ES WEST	BODY TEMPERATURE - SHIVERING & HEAT REGULATION PHYSIOLOGY	
ONSTRUCTED FROM DAILY DATA - ME			AAL-TOR-62-12 N63-21397 22	-10
QUATIONS FOR COMPUTING NUMBER D	ENSITY BATT		TOXICITY IN MICE AT LOW BODY TEMPERATURES - ROL OF ADRENAL HORMOMES & MITROGEN IN URINE AAL-TOR-62-63 M63-21399 22	E -10
CA-TR-63-2-A	N63-14362	10-20	100 100 100 100 100 100 100 100 100 100	35
HEAT INPUT AND TRANSFER, BARREL THERMAL STRAINS IN 37-MM GUN DUR		, AND	RAREFIED GAS DYNAMICS - ELECTRON BEAM DENSITY, TEMPERATURE PROBE AND EXAMINATION OF ELECTRO- LUMINESCENCE SPECTRA N63-21613 22	1-24
STRESS CORROSION CRACKING OF TIT.		712014	RADIOELECTRONICS IN PHYSIOLOGICAL EXPERIMENTATI AND CLINICAL PRACTICE - RADIOTELEMETRIC STUDY	ON
ROOM AND ELEVATED TEMPERATURE	N63-15494	12-18	OF TEMPERATURE IN HUMAN DIGESTIVE TRACT	1-14
HYPOTHALAMIC TEMPERATURES IN DOG THERMOREGULATORY RESPONSES TO EN			VELOCITY AND TEMPERATURE PROFILES AND SKIN FRICTION IN SUPERSONIC TURBULENT COMPRESSIBLE	
FACTORS	N63-15646	12-16	FLOW - ANNOTATED BIBLIOGRAPHY	i-1:
NVESTIGATION OF TEMPERATURE TRA	NSFORMATION	CF	TEMPERATURE CALCULATION	19-
WANTUM ALLOYS	N63-15731	12-18	UPPER AND LOWER BOUNDS IN PROBLEMS OF MELTING	SR
	ARTES STORY	I Todal J.		0-1
ADIATION BRIGHTNESS TEMPERATURE	O THE LOUISING	Translation	EXPLODING WIRE PHENOMENON - MAXIMUM TEMPERATURE	888
RL-5937	N63-16277	13-29	AND CURRENT PREDICTIONS NASA-CR-50728 N63-19203 16	8-0
THE TENGINE COMBUSTOR DURABILITY SEDUCING LINER TEMPERATURE BY SE ADIATION JET FUELS		FLANE	CF CRYOSTAT	
NUCLEAR REACTOR INSTRUMENTATION SWITCHING CIRCUIT, AND PROBE-TYPE			CF INSULATION EFFECT OF PREOPTIC LESIONS ON TEMPERATURE REGULATION IN CATS	1-1
SENSORS GENP-76	N63-16355	14-06	AND THE REAL PROPERTY OF THE PARTY OF THE PA	7
NERGY BUDGET AT EARTH SURFACE -	HICROHETED	ROLOGY	EFFECTS OF SPACE ENVIRONMENT ON MATERIALS - SYMPOSIUM No.3-10912 OF	2-0
wolfeeratzro zadziana oak intiz	N63-16581	000730	IMPROVED COATINGS FOR TEMPERATURE CONTROL IN A SPACE ENVIRONMENT N63-10916 OF	521A 2-1
ION DENSITY AND TEMPERATURE OF W PLASMA ARC FROM OBSERVATIONS OF MND HYDROGEN GAMMA LINE PROFILES MRC-CP-614	HYDROGEN BE	TA LINE	THERMOSTATIC TEMPERATURE CONTROL DURING ASCENT REENTRY OF HYPERVELOCITY SPACE VEHICLES	S TO NO
HIGH ALTITUDE SOUNDING ROCKETS F		11 TO THE P. P. L.	MAGNETOHYDRODYNAMIC-STEAM POWERPLANTS- REDUCTE	93100

MININE TIERROCTAT - TEMPERATURE CONTROL STIMULUS- RESPONSE ENGINEERING DESIGN OF ORBITING ASTRONOMICAL CONTROL, ORIENTATION AND STABLIZATION M63-15172 11-32 PRECISION TEMPERATURE CONTROL OF AIR AND OIL BATH SCITE-TI-0572247 MF05-15392 12-11 MF07THALANIC TEMPERATURE CONTROL OF AIR AND OIL BATH FACTORS M63-15646 12-16 DESIGN CRITERIA FOR UTILIZING CAMPA HEAT TO BRING LOW TEMPERATURE ORDATIC COLARY CAPSULES TO DOS-16850 SPACE SCIENCE - EMPLORER SATELLITE THERMAL CONTROL M63-15967 13-12 THERMAR PROTECTION WITH TEMPERATURE CAPABILITY TO 2500-066 F FOR COLL STRUCTURE M63-1090 13-32 THERMAL PROTECTION WITH TEMPERATURE CAPABILITY TO 2500-066 F FOR COLL STRUCTURE M63-1090 13-32 THERMAL PROTECTION WITH TEMPERATURE CAPABILITY TO 2500-066 F FOR COLL STRUCTURE M63-1090 13-32 THERMAL PROTECTION WITH TEMPERATURE CAPABILITY TO 2500-066 F FOR COLL STRUCTURE M63-1090 13-32 THERMAL PROTECTION WITH TEMPERATURE CAPABILITY TO 2500-066 F FOR COLL STRUCTURE M63-1090 13-32 THERMAL PROTECTION WITH TEMPERATURE CAPABILITY TO 2500-066 F FOR COLL STRUCTURE M63-1090 13-33 M63-1050 13-32 THERMAL PROTECTION WITH TEMPERATURE CAPABILITY TO 2500-066 F FOR COLL STRUCTURE M63-1790 15-06 THERMAL PROTECTION WITH TEMPERATURE CAPABILITY TO 2500-066 F FOR COLL STRUCTURE M63-1790 15-06 THERMAL PROTECTION WITH TEMPERATURE CAPABILITY TO 2500-066 F FOR COLL STRUCTURE M63-1790 15-06 THERMAL PROTECTION WITH TEMPERATURE CAPABILITY TO 2500-066 F FOR COLL STRUCTURE M63-1790 15-06 THERMAL PROTECTION WITH TEMPERATURE CONTROL OF FORMAL COLLING M63-1790 15-06 THERMAL PROTECTION WITH TEMPERATURE CONTROL OF FORMAL COLLING M63-1790 15-06 THERMAL PROTECTION WITH TEMPERATURE CONTROL OF FORMAL COLLING M63-1790 15-06 THERMAL PROTECTION WITH TEMPERATURE CONTROL OF FORMAL COLLING M63-1790 15-06 THERMAL PROTECTION WITH TEMPERATURE CONTROL OF THE PROTECTION OF THE PRO							
RESPONSE MAS-1407Z GOSERVATIONY SATELLITES — OFTICAL SYSTEMS, THERMAL CONTROL, OBLETATION AND STABILIZATION PRECISION TEMPERATURE CONTROL OF AIR AND DIL BATH SCTW-71-63/24/ PRECISION TEMPERATURES IN DOCS AND NORCKYS AND THERMOREOULATORY RESPONSES TO ENVIRONMENTAL THERMOREOULATORY RESPONSES TO ENVIRONMENTAL THERMOREOULATORY RESPONSES TO ENVIRONMENTAL TO DESIGN CRITERIA FOR UTILIZING CAMMA HEAT TO BRING LOW TEMPERATURE CONTROL CAPSULES TO DOS-16890 PRECISION TEMPERATURE CONTROL CAPSULES TO DOS-16890 PRO-16990 PRO-1699	OF SOLID	GINE NOZZLE				IRFACES FOR SPACECRAFT	SI
EMGINEERING DESIGN OF ORBITING ASTRONOMICAL CONTOR, ORIENTATION AND STABLLIES OF POLICAL SYSTEMS. THERMAL CONTOR, ORIENTATION AND STABLLIES OF POLICAL SYSTEMS. THE PROPERTY OF ADDITION OVERSHOOTS OF PROJECTILE BY DECREASING TEMPERATURE. THE MAS-15372 12-11 MYDOTHALAMIC TEMPERATURES IN DOOS AND MORKEYS AND THERMOGEOULATION FOR PROJECTILE BY DECREASING TEMPERATURE. THE MAS-15372 12-11 DOESING CHERCAL GROWN THE TEMPERATURE STORY DESIRED THE PROVINCE OF PROJECTILE BY DECREASING TEMPERATURE OF PROJECTILE BY DECREASING TEMPERATURE. THE MAS-15372 12-13 DOESING CHERCAL GOVERNOR. THE STATE OF THE MAS-15372 M	9 40 - FW35		SOIL MECHANICS				
PRECISION TEMPERATURE CONTROL OF AIR AND OIL BATH SCHT-17-06-37-24 NPOTDHALANIC TEMPERATURES IN DOES AND HORKEYS AND THERMOREQUIATORY RESPONSES TO ENVIRONMENTAL FACTORS ARRI-TOR-63-5 DESIGN CRITERIA FOR UTILIZING CAMMA HEAT TO BRING LOW TEMPERATURE ORATURE TORO-168-50 SPACE SCIENCE - EXPLORER SATELLITE THERMAL CONTROL NO3-15981 13-10 SPACE SCIENCE - EXPLORER SATELLITE THERMAL CONTROL NO3-15986 13-37 THERMAL PROTECTION WITH TEMPERATURE CAPABILITY TO 2500-DEG F FOR COOL STRUCTURES NO3-16906 13-17 MEAN TEMPERATURE CONTROL BY MASS TRANSFER FOR PERMANENT STRUCTURES - SURFACE COOLING THE PERMANENT CHAMBER FOR TRANSFER FOR PERMANENT STRUCTURES - SURFACE COOLING THE PERMANENT STRUCTURES - SURFACE COOLING THE PERMANENT STRUCTURES - SURFACE COOLING THE PERMANENT CHAMBER FOR TRANSFER FOR PERMANENT STRUCTURES - SURFACE COOLING THE PERMANENT STRUCTURES - SURFACE COOLING THE PERMANENT CHAMBER FOR TRANSFER FOR PERMANENT STRUCTURES - SURFACE COOLING THE PERMANENT STRUCTURES - SURFACE PORTH PERMANENT SURFACE CONTROL OF THE PERMANENT SURFACE CONTROL OF THE PERMANENT SURFACE CONTROL OF THE PERMANENT SURFACE SURFACE CONTROL OF THE PERMANENT SURFACE SURFACE CONTROL OF THE PERMANENT SURFACE CONTROL OF THE PERMANENT SURFACE CONTROL COATING FOR SASE-CCA-3115 STABILITY OF WHITE TEMPERATURE CONTROL OR THE PERMANENT SURFACE SURFACE AND THE PERMANENT SURFACE CONTROL OR THE PERMANENT SURFACE CONTROL OR THE PERMANENT SURFACE SURFACE AND THE PERMANENT SURFACE	SHOOTS IN W	F RADIATION OVERSHOOTS REASING TEMPERATURE -	TEMPERATURE DIFFERENCE POSSIBLE CAUSALITY OF RADIATION OF PROJECTILE BY DECREASING TO	MS. THERMAL	OPTICAL SYSTEMS, 1	SERVATORY SATELLITES - OPT	0
HYPOTHALAMIC TEMPERATURES IN DOCS AND MODICEYS AND THEMPORCEQUARTLY RESPONSES TO EMPIRIOMENTIAL MARK-TOD-33-5 No.3-15646 12-16 DESIGN CRITERIA FOR UTILIZING CAMMA HEAT TO BRING UNITEMPERATURE FOR UTILIZING CAMMA HEAT TO BRING UNITEMPERATURE ORGANIC COOLANT CAPSULES TO DESIRED TEMPERATURE CORANIC COOLANT CAPSULES TO DESIRED TEMPERATURE CORANIC COOLANT CAPSULES TO DESIRED TEMPERATURE CONTROL TEMPERATURE CORANIC CONTROL TO BRING 13-17 THEBMAL PROTECTION WITH TEMPERATURE CAPABILITY TO 2500-DEG F FOR COOL STRUCTURES 1863-10996 13-17 HEAT TRANSFER CONTROL BY MASS TRANSFER FOR MS3-10996 13-13 BIBLIOGRAPHY - THERMAL CONTROL OF SPACECARTY SURFACES SURFACES SURFACES SURFACES SURFACES SURFACES SURFACES OF THE SURFACE COLDING 13-17 THEEMAL ENVIRONMENT CHARBER FOR TRANSIENT RESPONSE TEMPERATURE CONTROL - RESPONSE OF HUMAN BOOV TO EXTREME TEMPERATURE ENVIRONMENT NO-1749 16-10 EFFECT OF INDUCED HYPOXIA ON THERROREGULATION AND CARRIED FOR THE SURFACE TO CONTROL OF THE SURFACE SU	-13969 09						
DESIGN CRITERIA FOR UTILIZING CAMMA HEAT TO BRING DISTRIBUTION SPACE SCIENCE - EXPLORER SATELLITE THERMAL CONTROL MO3-15986 13-32 THERMAL PROTECTION WITH TEMPERATURE CAPABILITY TO 2500-DEG F FOR COOL STRUCTURES - SURFACE COOLING MEAT TRANSFER CONTROL BY MASS TRANSFER FOR PERMANENT STRUCTURES - SURFACE COOLING SWEAK SURFACES SWEAK STRUCTURES - SURFACE COOLING THERMAL ENVIRONMENT CHARBER FOR TRANSIENT RESPONSE TEMPERATURE CONTROL - RESPONSE OF HUMAN BOOV TO EXTREME TEMPERATURE CONTROL IN DOCS AAL-TOR-02-19 MARI-TOM-03-15 SPUTINK IV SATELLITE SYSTEMS ANALYSIS - LAUNCHING ARGIOPULATION OF TEMPERATURE CONTROL COATING FOR EXPLORMENT ON WHITE EXPREASURE CONTROL COATING FOR ARCIA-2-19 MASS-CR-3-2134 STABILITY OF WHITE TEMPERATURE CONTROL COATING FOR ARCHARD THE UPPER ATMOSPHERE MASS-CR-3-134 MO3-12350 MO3-12102 MO3-12302 THERMAL DIFFUSIVITY MEASUREMENTS BY OPTICAL INTERPRATURE DISTRIBUTION. MO3-11732 THERMAL ENVIRONMENT MO3-11732 MO3-11749 MO3-11732 MO3-11749 MO3-11739 MO3-11749 MO		30 AND 50-KM IN ATMOS	60-DEG NORTH BETWEEN 30 AND 5	HONKEYS AND	S IN DOGS AND NONK	POTHALAMIC TEMPERATURES IN	947
DESIGN CRITERIA FOR UTILIZING CAMMA HEAT TO BRING LOW TEMPERATURE ORGANIC COOLANT CAPSULES TO THERMAL PROTECTION WITH TEMPERATURE CAPABILITY TO 2500-DEG F FOR COOL STRUCTURES THERMAL PROTECTION WITH TEMPERATURE CAPABILITY TO 2500-DEG F FOR COOL STRUCTURES MO3-16056 13-17 HEAT TRANSFER CONTROL BY MASS TRANSFER FOR PERMANENT STRUCTURES - SURFACE COOLING MO3-16059 13-13 BIBLIGGRAPHY - THERMAL CONTROL OF SPACECRAFT SURFACES SD-02-30 THERMAL ENVIRONMENT CHARBER FOR TRANSIENT RESPONSE TEMPERATURE CONTROL - RESPONSE OF HUMAN SOOV TO EFFECT OF INDUCED HYPOXIA ON THERMORREGULATION AND CARNIDOULD HYPOXIA ON THERMORREGULATION AND CARNIDOULD HYPOXIA ON THERMORREGULATION AND CARNIDOULD HYPOXIA ON THERMORREGULATION AND RELIABILITY OF WHITE TEMPERATURE CONTROL COATING FOR RASI-CR-32134 STRAILITY OF WHITE TEMPERATURE—CONTROL COATING FOR RASI-CR-22134 STRAILITY OF WHITE TEMPERATURE—CONTROL COATING FOR RASI-CR-20134 STR	-14378 10	N63-1437	RM-3564-PR	5646 12-16	N63-15646		
LOW TEMPERATURE ORGANIC COULANT CAPSULES TO DESTRED TEMPERATURE NOS-16887 13-10 SPACE SCIENCE - EXPLORER SATELLITE THERMAL CONTROL NOS-15986 13-32 THERMAL PROTECTION MITH TEMPERATURE CAPABILITY TO 2500-DOEG F FOR COOL STRUCTURES NOS-16056 13-17 HEAT TRANSFER CONTROL BY MASS TRANSFER FOR PERMANENT STRUCTURES - SURFACE COOLING SIBLIGGRAPHY - THERMAL CONTROL OF SPACECRAFT SURFACES SB-62-30 NOS-11089 15-06 SIBLIGGRAPHY - THERMAL CONTROL OF SPACECRAFT SURFACES SB-62-30 NOS-11089 15-06 THERMAL ENVIRONMENT CHAMBEE FOR TRANSIENT RESPONSE TEMPERATURE CONTROL - RESPONSE OF NOMAN BODY TO EMPERATURE CONTROL - RESPONSE OF NOMAN BODY TO ARKI-TOR-62-15 EFFECT OF INDUCED HYPOXIA ON THERMOREGULATION AND CARDIOPULAUMARY FUNCTION IN NOGS ALA-TOR-62-19 FUNDAL SON TEMPERATURE CONTROL IN NAMA AND COLD ENVIRONMENT AND TEMPERATURE CONTROL OF NAME CONTROL NOS-11732 16-16 SPUTINK IN SATELLITE SYSTEMS ANALYSIS - LAUNCHING PAGILITIES, AIR CONDITION AND TEMPERATURE CONTROL NOS-12499 TEMPERATURE STRAILITE SYSTEMS ANALYSIS - LAUNCHING PAGILITIES, AIR CONDITION AND TEMPERATURE CONTROL NOS-12499 TEMPERATURE DETERMINATION FROM A CLOUD OF ALKALI NAMPS IN THE UPPERA ATMOSPHERE NOS-125901 24-13 TEMPERATURE DETERMINATION FROM A CLOUD OF ALKALI NAMPS IN THE UPPERA ATMOSPHERE NOS-12499 TEMPERATURE DETERMINATION FROM A CLOUD OF ALKALI NAMPS IN THE UPPERA ATMOSPHERE NOS-12499 TEMPERATURE DETERMINATION FROM A SO-12103 201-29 RAFCHASTORY THE PROPERATURE DISTRIBUTION AND HEAT TRANSFER TON NOS-12499 TEMPERATURE DETERMINATION FROM A CLOUD OF ALKALI NAMPS IN THE UPPERA ATMOSPHERE NOS-12499 TEMPERATURE DETERMINATION FROM A CLOUD OF ALKALI NAMPS IN THE UPPERA ATMOSPHERE NOS-12499 TEMPERATURE DETERMINATION FROM A CLOUD OF ALKALI NAMPS IN THE UPPERA ATMOSPHERE NOS-12499 TEMPERATURE DETERMINATION FROM A CLOUD OF ALKALI NAMPS IN THE UPPERA ATMOSPHERE NOS-12499 TEMPERATURE DETERMINATION FROM A CLOUD OF ALKALI NAS-12491 TEMPERATURE DETERMINATION FROM A CLOUD OF ALKALI NAS-12491 TEMPERATURE DETERMINATION FROM A CLOUD OF ALKALI NAS-12491 TEM			TID ANTIIM ALLOVE				
SPACE SCIENCE — EXPLORER SATELLITE THERMAL CONTROL M63-15786 13-32 THERMAL PROTECTION WITH TEMPERATURE CAPABILITY TO 2500-DEG F FOR COOL STRUCTURES M63-16056 13-17 HEAT TRANSFER CONTROL BY MASS TRANSFER FOR PERMANENT STRUCTURES — SURFACE COOLING M63-16059 13-13 8 IBLIOGRAPHY — THERMAL CONTROL OF SPACECRAFT SURFACES SB-62-30 THERMAL ENVIRONMENT CHANBER FOR TRANSFERT RESPONSE TEMPERATURE CONTROL — RESPONSE OF HUMAN BOOY TO EXTREME TEMPERATURE CONTROL — RESPONSE OF HUMAN BOOY TO EXTREME TEMPERATURE ENVIRONMENT ANGLITHME CONTROL — RESPONSE OF HUMAN BOOY TO EXTREME TEMPERATURE ENVIRONMENT M63-17432 HUMAN BOOY TEMPERATURE ENVIRONMENT M63-17491 SPITUTIVE IV SATELLITE SYSTEMS ANALYSIS — LAUNCHING SPACECRAFT UNDER UNTITO AND TEMPERATURE CONTROL — REPARTURE DISTRIBUTION OF TEMPERATURE DISTRIBUTION FROM THE PROPERATURE DISTRIBUTION FROM THE PROPERATURE DISTRIBUTION OF TEMPERATURE DISTRIBUTION OF TEMPERATURE DISTRIBUTION FROM THE PROPERATURE OF THE PROPERATURE DISTRIBUTION FROM THE PROPER	-15731 12	N63-1573	AMRA-CR-63-02/1/F/			W TEMPERATURE ORGANIC COOL	L
SPACE SCIENCE - EXPLORER SATELLITE THERMAL CONTROL MO3-15986 13-32 THERMAL PROTECTION WITH TEMPERATURE CAPABILITY TO 2500-DEG F FOR COOL STRUCTURES MO3-16056 13-17 HEAT TRANSFER CONTROL BY MASS TRANSFER FOR PERMANENT STRUCTURES - SURFACE COOLING MO3-16059 13-13 BIBLIOGRAPHY - THERMAL CONTROL OF SPACECRAFT SURFACES SN-62-30 MO3-17089 15-06 THERMAL ENVIRONMENT CHAMBER FOR TRANSIENT RESPONSE TEMPERATURE CONTROL - RESPONSE OF HUMAN BODY TO EFFECT OF INDUCED HYPOXIA ON THERMOREGULATION AND CARDIOPULNOMAY FUNCTION IN DOGS AND-17089 16-16 HUMAN BODY TEMPERATURE CONTROL IN WARM AND COLD ENVIRONMENT SPUTNIK IV SATELLITE SYSTEMS ANALYSIS - LAUNCHING FACILITIES, AIR CONDITION AND TEMPERATURE CONTROL FACILITIES, AIR CONDITION AND TEMPERATURE CONTROL SPUTNIK IV SATELLITE SYSTEMS ANALYSIS - LAUNCHING FACILITIES, AIR CONDITION AND TEMPERATURE CONTROL SPUTNIK IV SATELLITE SYSTEMS ANALYSIS - LAUNCHING FACILITIES, AIR CONDITION AND TEMPERATURE CONTROL SPUTNIK IV SATELLITE SYSTEMS ANALYSIS - LAUNCHING FACILITIES, AIR CONDITION AND TEMPERATURE CONTROL SPUTNIK IV SATELLITE SYSTEMS ANALYSIS - LAUNCHING FACILITIES, AIR CONDITION AND TEMPERATURE CONTROL SPUTNIK IV SATELLITE SYSTEMS ANALYSIS - LAUNCHING FACILITIES, AIR CONDITION AND TEMPERATURE CONTROL SPUTNIK IV SATELLITE SYSTEMS ANALYSIS - LAUNCHING FACILITIES, AIR CONDITION AND TEMPERATURE CONTROL SPUTNIK IV SATELLITE SYSTEMS ANALYSIS - LAUNCHING FACILITIES, AIR CONDITION AND TEMPERATURE CONTROL SPUTNIK IV SATELLITE SYSTEMS ANALYSIS - LAUNCHING FACILITIES, AIR CONDITION AND TEMPERATURE POSTATION OF TEMPERATURE DISTRIBUTION NOS-11290 STABILITY OF WHITE TEMPERATURE CONTROL NOS-11290 STABILITY OF WHITE TEMPERATURE CONTROL NOS-11290 STABILITY OF WHITE TEMPERATURE CONTROL NOS-11290 STABILITY OF WHITE TEMPERATURE TRANSIATION TO MAKE NOS-12190 STABILITY OF WHITE TEMPERATURE DISTRIBUTION AND TEMPERATURE DETERMINATION FROM Y LIGHT PROPERATION OF TEMPERATURE DETERMINATION FROM Y LIGHT PROPERATURE DISTRIBUTION NOS-12490 TEMPERATURE DETERMINATION FROM Y LIGHT PROPERATURE DISTRIBUTION NOS-	NSFER	CY OF A HEAT TRANSFER		15887 13-10	N63-15887		
THERMAL PROTECTION WITH TEMPERATURE CAPABILITY TO 2500-DEG F FOR COOL STRUCTURES N63-16056 13-17 N63-16056 13-17 N63-17056 13-17 N63-17059 13-13 N63-16059 13-13 N63-17059 N63-170			NASA-CR-51299			PACE SCIENCE - EXPLORER SAT	SI
BENDING MOMENT AND A NONUNIFORM TEPREATURE PROPAGED IN 19-10 HEAT TRANSFER CONTROL BY HASS TRANSFER FOR PERAMENT STRUCTURES - SURFACE COULING MAS-10-109 13-13 MAS-1N-0-1513 MAS-1N-0-1513 MAS-1N-0-1513 MAS-10-10-10 MAS-10-10-1	HINDER A DI	N ECENED CYLTHDERS HINDE	TEMPERATURE DISTRIBUTION			SERVAL RESTRICTION WITH TEND	T
HEAT TRANSFER CONTROL BY HASS TRANSFER FOR PERMANENT STRUCTURES - SURFACE COQLING M63-16059 13-13 BIBLIOGRAPHY - THERMAL CONTROL OF SPACECRAFT SURFACES SB-62-30 N63-17089 15-06 THERMAL ENVIRONMENT CHAMBER FOR TRANSIENT RESPONSE TEMPERATURE CONTROL - RESPONSE OF HUMAN SOUT TO EXTREME TEMPERATURE ENVIRONMENT N63-17490 16-10 EFFECT OF INDUCED HYPOXIA ON THEMPOREQUIATION AND CARDIOPHLMOMARY FUNCTION IN DGGS AL-TOR-62-19 N63-17649 16-16 BY UTHIR IV SAFELLITE SYSTEMS ANALYSIS - LAUNCHING PACILITIES, AIR COMPUTITION AND TEMPERATURE CONTROL N63-1732 16-16 SPUTNIK IV SAFELLITE SYSTEMS ANALYSIS - LAUNCHING PACILITIES, AIR CONDITION AND TEMPERATURE CONTROL COMMUNICATIONS N63-1732 16-16 SPUTNIK IV SAFELLITE SYSTEMS ANALYSIS - LAUNCHING PACILITIES, AIR CONDITION AND TEMPERATURE CONTROL COMMUNICATIONS N63-1129 STABILITY OF WHITE TEMPERATURE-CONTROL COATING FOR SPACECRAFT UNDER ULTRAVIOLET IRRADIATION IN VACUUM NASA-CA-52134 TEMPERATURE DETERMINATION FROM A CLOUD OF ALKALI WAPOR IN THE UPPER ATMOSPHERE NG3-10122 01-29 EARCIS IN INTERPRETING LUNAR SURFACE TEMPERATURE AND AN ACTOGRAPH FOR COCKAGACHES NG3-12929 LUNAR TEMPERATURE DETERMINATION DURING LUNAR SURFACE TEMPERATURE DATA OSTAINED BY INSTRUMENTS ABOVE EARTH ATMOSPHERE POR II OSTAINED BY INSTRUMENTS ABOVE EARTH NG3-11733 15-29 EXCITATION OF AIO-BANDS IN SUNLIT ATMOSPHERE AND TEMPERATURE DETERMINATION DURING LUNAR SURFACE TEMPERATURE DATA OSTAINED BY INSTRUMENTS NG3-12929 LUNAR TEMPERATURE DETERMINATION DURING LUNAR NG3-12929 EXCITATION OF AIO-BANDS IN SUNLIT ATMOSPHERE AND TEMPERATURE DETERMINATION FROM A COURT NGA-1013 15-29 EXCITATION OF AIO-BANDS IN SUNLIT ATMOSPHERE AND TEMPERATURE DETERMINATION SPROM VIGRATIONAL LEVELS NG3-12929 EXCITATION OF AIO-BANDS IN SUNLIT ATMOSPHERE AND TEMPERATURE DETERMINATION SPROM VIGRATIONAL LEVELS NG3-12929 EXCITATION OF AIO-BANDS IN SUNLIT ATMOSPHERE AND TEMPERATURE DETERMINATION AND TEMPERATURE DETERMI			BENDING MOMENT AND A NONUNIFO		ICTURES NA3-14056	000-DEG F FOR COOL STRUCTUR	
PERMANENT STRUCTURES - SURFACE COOLING Mo3-16059 13-13 BIBLIOGRAPHY - THERMAL CONTROL OF SPACECRAFT SURFACES ON M63-17089 15-06 THERMAL ENVIRONMENT CHAMBER FOR TRANSIENT RESPONSE TEMPERATURE CONTROL - RESPONSE OF HUMAN BOOV TO EXTRERE TEMPERATURE REVIRONMENT M63-17490 16-10 EFFECT OF INDUCED HYPOXIA ON THERMOREGULATION AND CARDIOPULMOMARY FUNCTION IN DOGS ALL-TOR-62-19 HUMAN BOOV TEMPERATURE CONTROL IN WARN AND COLD ENVIRONMENT M63-17732 16-16 SPUTNIK IV SATELLITE SYSTEMS ANALYSIS - LAUNCHING FACILITIES, AIR CONDITION AND TEMPERATURE CONTROL RESPONSE OF HUMAN RESPONSE TUMBER UNDER TUMBER AND AND TEMPERATURE CONTROL. TELEBRATE AND COMMUNICATIONS N63-1279. STABILITY OF WHITE TEMPERATURE-CONTROL COATING FOR SPACECRAFT UNDER UNTRY OF HITE TEMPERATURE CONTROL. TELEBRATE THE M63-23501 24-13 TEMPERATURE DETERMINATION M63-23501 24-13 TEMPERATURE DETERMINATION FROM A CLOUD OF ALKALI WAPOR IN THE UPPER ATMOSPHERE M63-10122 01-29 ERRORS IN INTERPRETING LUMAR SURFACE TEMPERATURE DATA OSTAINED BY INSTRUMENTS ABOVE EARTH M63-10122 01-29 ERRORS IN INTERPRETING LUMAR SURFACE TEMPERATURE DATA OSTAINED BY INSTRUMENTS ABOVE EARTH M63-10122 01-29 ERRORS IN INTERPRETING LUMAR SURFACE TEMPERATURE DATA OSTAINED BY INSTRUMENTS ABOVE EARTH M63-10122 01-29 ERRORS IN INTERPRETING LUMAR SURFACE TEMPERATURE DATA OSTAINED BY INSTRUMENTS ABOVE EARTH M63-10122 01-29 ERRORS IN INTERPRETING LUMAR SURFACE TEMPERATURE DATA OSTAINED BY INSTRUMENTS ABOVE EARTH M63-10122 01-29 ERRORS IN INTERPRETING LUMAR SURFACE TEMPERATURE DATA OSTAINED BY INSTRUMENTS ABOVE EARTH M63-10122 01-29 ERRORS IN INTERPRETING LUMAR SURFACE TEMPERATURE DATA OSTAINED BY INSTRUMENTS ABOVE EARTH M63-10122 01-29 ERRORS IN INTERPRETING LUMAR SURFACE TEMPERATURE DATA OSTAINED BY INSTRUMENTS ABOVE EARTH M63-10122 01-29 ERRORS IN INTERPRETING LUMAR SURFACE TEMPERATURE DATA OSTAINED BY INSTRUMENTS ABOVE EARTH M63-10122 01-29 ERRORS IN INTERPRETING LUMAR SURFACE TEMPERATURE DATA OSTAINED BY INSTRUMENTS ABOVE EARTH M63-10122 01-29 ERRORS IN INTERPRETING LUMAR SURFA	-10179 01	N63-1017	NASA-TN-D-1513	FOR			641
SIBLIOGRAPHY - THERMAL CONTROL OF SPACECRAFT SURFACES SB-62-30 N63-17099 15-06 THERMAL ENVIRONMENT CHARBER FOR TRANSIENT RESPONSE TEMPERATURE CONTROL - RESPONSE OF HUMAN SOOV TO EXTREME TEMPERATURE ENVIRONMENT ARRI-TOR-63-15 EFFECT OF INDUCED HYPOXIA ON THERMOREGULATION AND CARDIDOPULMONARY FUNCTION IN 30GS AAL-TOR-62-19 HUMAN SOOV TEMPERATURE CONTROL IN MASH AND COLD ENVIRONMENT FACILITIES, AIR COMDITION AND TEMPERATURE CONTROL, RELIABILITY CONTROL, TELEMETRY AND COMMUNICATIONS N63-18499 17-32 STABILITY OF WHITE TEMPERATURE CONTROL RESPECT UNDER ULTRAVIOLET IRRADIATION IN VACUUM RASA-CR-52134 FEMPERATURE DETERMINATION RAS3-10122 01-29 ERRORS IN INTERPRETING LUMAR SURFACE TEMPERATURE DATA OBTAINED BY INSTRUMENTS ABOVE EARTH WASGA-CR-50148 N63-11713 15-29 EXCITATION OF A1O-BANDS IN SUMILIT ATMOSPHERE AND TEMPERATURE DETERMINATION DURING LUMAR N63-20966 21-12 OEVELOPMENT OF IMPLANTABLE TEMPERATURE TRANSMITTER AND AM ACTOGRAPH FOR COCKROACHES - BIOINSTRUMENTS N63-21062 21-17 MEASUREMENTS OF LUMAR TEMPERATURE VIBRATIONS OWN INS ECLIPSE AND GORMAL LUMATION AND ISOTHERMAL RAPS OF SELECTED CRATERS N63-21062 12-12 OR VELOPMENT OF IMPLANTABLE TEMPERATURE TRANSMITTER AND AM ACTOGRAPH FOR COCKROACHES - BIOINSTRUMENTS N63-21062 12-12 OR VELOPMENT OF IMPLANTABLE TEMPERATURE TRANSMITTER AND AM ACTOGRAPH FOR COCKROACHES - BIOINSTRUMENTS N63-21062 12-12 OR VELOPMENT OF IMPLANTABLE TEMPERATURE TRANSMITTER AND AM ACTOGRAPH FOR COCKROACHES - BIOINSTRUMENTS N63-21062 12-12 OR VELOPMENT OF IMPLANTABLE TEMPERATURE TRANSMITTER AND AM ACTOGRAPH FOR COCKROACHES - BIOINSTRUMENTS N63-21062 12-12 OR VELOPMENT OF IMPLANTABLE TEMPERATURE TRANSMITTER AND AM ACTOGRAPH FOR COCKROACHES - BIOINSTRUMENTS N63-21062 12-12 OR VELOPMENT OF IMPLANTABLE TEMPERATURE TRANSMITTER AND AM ACTOGRAPH FOR COCKROACHES - BIOINSTRUMENTS N63-21062 12-12 OF VELOPMENT OF IMPLANTABLE TEMPERATURE TRANSMITTER AND AM ACTOGRAPH FOR COCKROACHES - BIOINSTRUMENTS N63-21062 12-12 OF VELOPMENT OF THE PERATURE TRANSMITTER AND AN ACTOGRAPH FOR COCKROACHES -	TE IN	CIENTS FOR A PLATE IN			URFACE COOLING		
SUFFACES SB-62-30 N63-17089 15-06 THERMAL ENVIRONMENT CHAMBER FOR TRANSIENT RESPONSE TEMPERATURE CONTROL - RESPONSE OF HUMAN BODY TO EXTREM TEMPERATURE ENVIRONMENT AMAL-TOR-63-15 N63-17490 16-10 CARDIOPULMONARY FUNCTION IN DOGS AAL-TOR-62-19 N63-17490 N63-	-10346 01	N63-1034	FTD-TT-62-1413/162	ECRAFT	ONTROL OF SPACECRA	AL EGGRAPHY - THERMAL CONTR	81
THERMAL ENVIRONMENT CHAMBER FOR TRANSIENT RESPONSE TEMPERATURE CONTROL - RESPONSE OF HUMAN BOOV TO EXTREME TEMPERATURE ENVIRONMENT AMAL-TOR-63-15 EFFECT OF INDUCED HYPOXIA ON THERMOREGULATION AND CARDIDPULHONARY FUNCTION IN DOSS AAL-TOR-62-19 HUMAN BOODY TEMPERATURE CONTROL IN WARM AND COLD ENVIRONMENT SPUTNIK IV SATELLITE SYSTEMS ANALYSIS - LAUNCHING FACILITIES, AIR CONDITION AND TEMPERATURE CONTROL, RELIABILITY CONTROL, TELEMETRY AND COMMUNICATIONS N63-1732 STABILITY OF WHITE TEMPERATURE-CONTROL, RELIABILITY OF WHITE TEMPERATURE-CONTROL COATING FOR SPACECRAFT UNDER ULTRAVIOLET IRRADIATION IN VACUUM NASA-CR-52134 N63-23501 Z4-13 TEMPERATURE DETERMINATION TEMPERATURE DETERMINATION FROM A CLOUD OF ALKALI VAPOR IN THE UPPER ATMOSPHERE AFCR62-1049 RERORS IN INTERPRETING LUMAR SURFACE TEMPERATURE AFCR62-1049 RASA-CR-50149 N63-1173: DASA-CR-50149 N63-1275 N63-1173: ANALOG COMPUTATION OF TEMPERATURE DISTRIBUTION ANALOG COMPUTATION OF TEMPERATURE DISTRIBUTION ANALOG COMPUTATION OF TEMPERATURE DISTRIBUTION TEMPERATURE DETERMINATION TEMPERATURE DETERMINATION N63-1279: N63-1173: ANALOG COMPUTATION OF TEMPERATURE DISTRIBUTION TEMPERATURE DETERMINATION N63-1173: ANALOG COMPUTATION OF TEMPERATURE DISTRIBUTION N63-1173: ANALOG COMPUTATION OF TEMPERATURE DISTRIBUTION N63-1173: ANALOG COMPUTATION OF TEMPERATURE DISTRIBUTION OF TEMPERATURE DISTRIBUTION OF TEMPERATURE DISTRIBUTION OF COMPRESSED-GAS TANNS TEMPERATURE DETERMINATION FROM A CLOUD OF ALKALI N63-1279: RERORS IN INTERPRETING LUMAR SURFACE TEMPERATURE DATA DISTRIBUTION OF ORDITON AND HEAT TRANSFEI INSULATION OF COMPRESSED-GAS TANNS TEMPERATURE DETERMINATION DEROID N63-1279: N63-1179: ANALOG COMPUTATION OF TEMPERATURE DISTRIBUTION N63-1279: N63-1179: ANALOG COMPUTATION OF TEMPERATURE DISTRIBUTION N63-1279: N63-1179: N63-1					N63-17089	IRFACES	SI
EFFECT OF INDUCED HYPOXIA ON THERMOREGULATION AND CARDIOPULMONARY FUNCTION IN DOGS ALTOR—62-19 No3-17649 16-16 THERMORETRY ONERA-TR-108 N63-1129 HUMAN BODY TEMPERATURE CONTROL IN WARN AND COLD ENVIRONMENT NO3-17732 16-16 PROPELATION OF CRYGERIC NO3-11752 SPUTNIK IV SATELLITE SYSTEMS ANALYSIS - LAUNCHING FACILITIES, AIR COUNTION AND TEMPERATURE CONTROL, RELIABILITY OF WHITE TEMPERATURE CONTROL COATING FOR NG3-18449 17-32 NA3-16645 N63-11753 STABILITY OF WHITE TEMPERATURE-CONTROL COATING FOR NG3-18449 17-32 NA1-6645 N63-11753 STABILITY OF WHITE TEMPERATURE-CONTROL COATING FOR NG3-18449 17-32 NA1-6645 N63-11753 TEMPERATURE DETERMINATION FROM A CLOUD OF ALKALI WARDE IN THE UPPER ATMOSPHERE NG3-10122 01-29 N63-10122 01-29 N6			TEMPERATURE DISTRIBUTION, REE		BER FOR TRANSIENT	ERMAL ENVIRONMENT CHAMBER	TI
CARDIOPULMOMARY FUNCTION IN DOGS ALTOR-62-19 N63-17649 16-16 HUMAN BODY TEMPERATURE CONTROL IN WARM AND COLD ENVIRONMENT SPUTNIK IV SATELLITE SYSTEMS ANALYSIS - LAUNCHING FACILITIES, AIR CONDITION AND TEMPERATURE CONTROL, RELIABILITY OF MHITE TEMPERATURE AND COMMUNICATIONS STABILITY OF MHITE TEMPERATURE—CONTROL COATING FOR SPACECRAFT UNDER ULTRAVIOLET IRRADIATION IN VACUUM MASA-CR-52134 STABILITY OF WHITE TEMPERATURE—CONTROL COATING FOR SPACECRAFT UNDER ULTRAVIOLET IRRADIATION IN VACUUM MASA-CR-52134 PERPERATURE DETERMINATION FROM A CLOUD OF ALKALI VAPOR IN THE UPPER ATMOSPHERE DATA OBTAINED BY INSTRUMENTS ABOVE EARTH ATMOSPHERE DATA OBTAINED BY INSTRUMENTS ABOVE EARTH MASA-CR-50148 MASA-CR-50148 MASA-17133 15-29 EXCITATION OF A10-BANDS IN SUNLIT ATMOSPHERE AND TEMPERATURE DETERMINATIONS FROM VIBRATIONAL LEVELS NASA-CR-50148 MASA-CR-50148 MASA-CR-6014 MASA-CR-50148 MASA-CR-6014 MASA-CR-50148 MAS	-10708 02	N63-1070	15-492	17490 16-10	N42-17400	MI TOO 42 15	
HUMAN BODY TEMPERATURE CONTROL IN WARM AND COLD ENVIRONMENT SPUTNIK IV SATELLITE SYSTEMS ANALYSIS - LAUNCHING FACILITIES, AIR COMDITION AND TEMPERATURE CONTROL, RELIABILITY CONTROL, TELEMETRY AND COMMUNICATIONS N63-1325 STABILITY OF WHITE TEMPERATURE—CONTROL COATING FOR SPACECRAFT UNDER ULTRAVIGLET IRRADIATION IN VACUUM NASA-CR-52134 TEMPERATURE DETERMINATION FROM A CLOUD OF ALKALI VAPOR IN THE UPPER ATMOSPHERE N63-10122 01-29 ERRORS IN INTERPRETING LUNAR SUFFACE TEMPERATURE DETERMINATION DURING LUNAR ATMOSPHERE N63-14491 10-05 LUNAR TEMPERATURE DETERMINATION DURING LUNAR NIGHTINE NASA-CR-50148 EXCITATION OF A10-BANDS IN SUNLIT ATMOSPHERE AND TEMPERATURE DETERMINATIONS FROM VIBRATIONAL LEVELS NG3-20986 21-12 OEVELOPMENT OF IMPLANTABLE TEMPERATURE TRANSHITER AND AN ACTOGRAPH FOR COCKROACHES - BIGINSTRUMENTS OF SERECTED CRATERS OUR LUNAR TEMPERATURE DETERMINATION SOUNTING ECLIPSE AND NORMAL LUNATION AND ISOTHERMAL RAPS OF SELECTED CRATERS M63-21062 21-12 MEASUREMENTS OF LUNAR TEMPERATURE VARIATIONS OUR ING ECLIPSE AND NORMAL LUNATION AND ISOTHERMAL RAPS OF SELECTED CRATERS M63-1570- MEASUREMENTS OF LUNAR TEMPERATURE VARIATIONS OUR ING ECLIPSE AND NORMAL LUNATION AND ISOTHERMAL RAPS OF SELECTED CRATERS M63-12102: MEASUREMENTS OF LUNAR TEMPERATURE VARIATIONS OUR ING ECLIPSE AND NORMAL LUNATION AND ISOTHERMAL RAPS OF SELECTED CRATERS M63-12102: MEASUREMENTS OF LUNAR TEMPERATURE VARIATIONS NO MAYERS OF SELECTED CRATERS M63-12102: MEASUREMENTS OF LUNAR TEMPERATURE VARIATIONS NO MAYERS OF SELECTED CRATERS M63-12102: MEASUREMENTS OF LUNAR TEMPERATURE VARIATIONS NO MAYERS OF SELECTED CRATERS M63-12102: MEASUREMENTS OF LUNAR TEMPERATURE VARIATIONS NO MAYERS OF SELECTED CRATERS M63-12102: MEASUREMENTS OF LUNAR TEMPERATURE VARIATIONS NO MAYERS OF SELECTED CRATERS M63-12102: MEASUREMENTS OF LUNAR TEMPERATURE VARIATIONS NO MAYERS OF SELECTED CRATERS M63-12102: MEASUREMENTS OF LUNAR TEMPERATURE VARIATIONS NO MAYERS OF SELECTED CRATERS M63-1204: M63-1204: M63-1204: M63-1205: M63-1206: M63-1206:	利に出て利に利用を利用	Upon assume statement	THERMOMETRY		IN DOGS	RDIOPULMONARY FUNCTION IN	CI
SPUTNIK IV SATELLITE SYSTEMS ANALYSIS - LAUNCHING FACILITIES, AIR CONDITION AND TEMPERATURE CONTROL, RELIABILITY CONTROL, TELEMETRY AND COMMUNICATIONS No.3-1849 17-32 No.3-18	0.677.052***********	HAVE ASSESSED MESSESSES		17649 16-16	N63-17649	L-TDR-62-19	A
FACILITIES, AIR CONDITION AND TEMPERATURE CONTROL, RELIABILITY CONTROL, TELEMETRY AND COMMUNICATIONS NG3-18449 17-32 NG3-18449 17-32 STABILITY OF WHITE TEMPERATURE-CONTROL COATING FOR SPACECRAFT UNDER ULTRAVIOLET IRRADIATION IN VACUUM NASA-CR-52134 NG3-23501 24-13 TEMPERATURE DETERMINATION FROM A CLOUD OF ALKALI VAPOR IN THE UPPER ATMOSPHERE AFCRL-62-1049 NG3-10122 01-29 ERRORS IN INTERPRETING LUNAR SURFACE TEMPERATURE DATA OBTAINED BY INSTRUMENTS ABOVE EARTH ATMOSPHERE NASA-CR-50148 NG3-14491 10-05 LUNAR TEMPERATURE DETERMINATION DURING LUNAR NIGHTIME NASA-CR-50148 NG3-17133 15-29 EXCITATION OF AIO-BANDS IN SUNLIT ATMOSPHERE AND TEMPERATURE DETERMINATIONS FROM VIBRATIONAL LEVELS NG3-20986 21-12 DEVELOPMENT OF IMPLANTABLE TEMPERATURE TRANSMITTER AND AN ACTOGRAPH FOR COCKROACHES - BIDINSTRUMENTS NG3-21062 21-17 MEASUREMENTS OF LUNAR TEMPERATURE VARIATIONS DURING ECLIPSE AND NORMAL LUNATION AND ISOTMERNAL NASP OF SELECTED CRATERS NG3-21621 22-29 CHARLITATIVE SECTIONS CORLS TEMPERATURE DISTRIBUTION AND TEMPERATURE DIST							
STABILITY OF WHITE TEMPERATURE—CONTROL COATING FOR SPACECRAFT UNDER ULTRAVIOLET TRADIATION IN VACUUM NASA—CR—52134 TEMPERATURE DETERMINATION FROM A CLOUD OF ALKALI VAPOR IN THE UPPER ATMOSPHERE N63—10122 01—29 ERRORS IN INTERPRETING LUNAR SURFACE TEMPERATURE DATA OBTAINED BY INSTRUMENTS ABOVE EARTH ATMOSPHERE N63—14491 10—05 LUNAR TEMPERATURE DETERMINATION DURING LUNAR NIGHTINE NASA—CR—50148 M63—17133 15—29 EXCITATION OF A10—BANDS IN SUNLIT ATMOSPHERE AND TEMPERATURE DETERMINATIONS FROM VIBRATIONAL LEVELS N63—20986 21—12 OEVELOPMENT OF IMPLANTABLE TEMPERATURE TRANSHITTER AND AN ACTOGRAPH FOR COCKROACHES — BIDINSTRUMENTS N63—21062 21—17 MEASUREMENTS OF LUNAR TEMPERATURE VARIATIONS DURING ECLIPSE AND NORMAL LUNATION AND ISOTHERMAL MAPS OF SELECTED CRATERS M63—21621 22—29 OURMATITATIVE SECTIONS CORIC TEMPERATURE VALOUR OF ALMOSPICATION OF ALMAL STRUMENTS N63—15700 OR AND INTROGEN PLASHA JETS NA3—16512 ARGALA 135 SALT BATH HEAT TRANSFER RATES FOR URANTUM ANNEALING PROCESS TEMPERATURE DISTRIBUTION NAD—14401 V—1410 NAMELING PROCESS TEMPERATURE DISTRIBUTION NAD HEAT TRANSFER INSULATION OF COMPRESSED ATMAS STANKS FTD—TT—62—1459/16264 N63—1275 ROCKET SOUNDING OF UPPER ATMOSPHERE FOR IS OFFICT TO COMPRESSED AND STRUCTURE DISTRIBUTION AND HEAT TRANSFER COSMIC RAYS, AND ELECTRON DENSITY NAD—1459/16264 N63—1275 ROCKET SOUNDING OF UPPER ATMOSPHERE FOR IS OFFICT TO COMPRESSED AND STRUCTURE DISTRIBUTION AND ALVESTS OF STRUCTURES UNDIT NAD—1459/16264 N63—1275 ROCKET SOUNDING OF UPPER ATMOSPHERE FOR IS OFFICT TO COMPRESSED AND STRUCTURE DISTRIBUTION AND ALVESTS OF STRUCTURES UNDIT NAD—1459/16264 N63—1275 ROCKET SOUNDING OF UPPER ATMOSPHERE FOR IS OFFICT TO COMPRESSED AND STRUCTURE DISTRIBUTION AND ALVESTS OF STRUCTURES UNDIT NAD—1459/16264 N63—1275 ROCKET SOUNDING OF UPPER ATMOSPHERE FOR IS OFFICT TO COMPRESSED AND STRUCTURE DISTRIBUTION AND ALVESTS OF STRUCTURE	DN AND	AL HEAT-GENERATION AND PROPERTIES	SOLIDS WITH ELECTRICAL HEAT-G TEMPERATURE-DEPENDENT PROPERT	TURE CONTROL,	N AND TEMPERATURE (CILITIES, AIR CONDITION AN	FA
SPACECRAFT UNDER ULTRAVIOLET IRRADIATION IN VACUUM NASA-CR-52134 TEMPERATURE DETERMINATION TEMPERATURE DETERMINATION FROM A CLOUD OF ALKALI VAPOR IN THE UPPER ATMOSPHERE AFCRL-62-1049 ERRORS IN INTERPRETING LUNAR SURFACE TEMPERATURE DATA OBTAINED BY INSTRUMENTS ABOVE EARTH ATMOSPHERE LUNAR TEMPERATURE DETERMINATION DURING LUNAR NIGHTTIME NASA-CR-50148 M63-17133 DEVELOPMENT OF ALO-BANDS IN SUNLIT ATMOSPHERE AND TEMPERATURE DETERMINATIONS FROM VIBRATIONAL LEVELS N63-20986 AL-12 DEVELOPMENT OF IMPLANTABLE TEMPERATURE THANSMITTER AND AN ACTOGRAPH FOR COCKROACHES - BIDINSTRUMENTS DURING ECLIPSE AND NORMAL LUNATION AND ISOTMERNAL DURING ECCIPSE AND NORMAL LUNATION AND ISOTMERNAL DIAGRAC	-11751 04	N63-1175	ANL-6645	18449 17-32	N63-18449		
TEMPERATURE DETERMINATION FROM A CLOUD OF ALKALI VAPOR IN THE UPPER ATMOSPHERE AFCRL-62-1049 M63-10122 M63-1013 M63-10122 M63-1013 M70-1014 M	BUTIONS	MPERATURE DISTRIBUTIO	ANNEALING PROCESS TEMPERATURE	ION IN VACUUM	OLET IRRADIATION IS	ACECRAFT UNDER ULTRAVIOLET	51
AFOR IN THE UPPER ATMOSPHERE AFCRL-62-1049 M63-10122 M63-1013 M63-10122 M63-10122 M63-10122 M63-10122 M63-10122 M63-1012 M63-10122 M63-1012 M63-10122 M63	ANSFER IN					RATURE DETERMINATION	EMPE
CONTROL OF THE PRETATURE DETERMINATION DURING LUNAR AND AN ACTOGRAPH FOR COCKROACHES - 8 101NSTRUMENTS OF SELECTED CRAFTES N63-21621 22-29 MEASUREMENTS OF SELECTED CRAFTES N63-21621 22-29 MINISTITUTE OF TRANSPORTER AND DURING LUNAR N63-21621 22-29 MEASUREMENTS OF SELECTED CRAFTES N63-21621 22-29 MINISTITUTE OF TRANSPORTER AND SPECTRA AND TEMPERATURE DESTRICTION AND PRESSURE DISTRIBUTION AND PRESSURE DISTRIBUTION AND PRESSURE DISTRIBUTION AND PRESSURE DISTRIBUTION AND AN ACTOGRAPH FOR COCKROACHES - 8 101NSTRUMENTS N63-21621 22-29 MEASUREMENTS OF LUNAR TEMPERATURE VARIATIONS DURING ECLIPSE AND NORMAL LUNATION AND ISOTHERHAL MAPS OF SELECTED CRAFTES N63-21621 22-29 MINISTITUTION OF LUNAR TEMPERATURE VARIATIONS OF SELECTED CRAFTES N63-21621 22-29 MINISTITUTION OF LUNAR TEMPERATURE VARIATIONS N63-21621 22-29 MINISTITUTION OF LUNAR TEMPERATURE VARIATIONS N63-21621 22-29 MINISTITUTION OF LUNAR TEMPERATURE VARIATIONS N63-21621 22-29 MINISTITUTION OF ALO-BANDS IN SUNLIT ATMOSPHERE AND TO-DIMENSIONAL TEMPERATURE DISTRIBUTION AND THOROUGH PLASHA JETS NA3-16512 MASSOCRET SOUNDING OF UPPER ATMOSPHERE FOR II CHASTITY, MIND VELOCITY, AND ELECTRON DENSITY N63-1258 MASSOCRET SOUNDING OF UPPER ATMOSPHERE FOR II CHASTITY, MIND VELOCITY, AND ELECTRON DENSITY N63-1258 MASSOCRET SOUNDING OF UPPER ATMOSPHERE FOR II CONSITY, AND ELECTRON DENSITY N63-1258 MASSOCRET SOUNDING OF UPPER ATMOSPHERE FOR II CONSITY, AND ELECTRON DENSITY N63-1258 MAD - 10-01 MEASURE TEMPERATURE DISTRIBUTION OF THE PERATURE DISTRIBUTI	-12754 06				PHERE	POR IN THE UPPER ATHOSPHER	W
LUNAR TEMPERATURE DETERMINATION DURING LUNAR NIGHTTIME NASA-CR-50148 M63-17133 M63-17134 M63-171		TY, TEMPERATURE DISTR	DENSITY, WIND VELOCITY, TEMPE	TEMPERATURE	UNAR SURFACE TEMPER	RORS IN INTERPRETING LUNAR	ER
TIME OFFICIAL TO THE STREET OF STREE		N63-1325	TO STUDY OF THE STREET	14491 10-05			
ASSA-CR-50148 M63-17133 13-29 EXCITATION OF A10-BANDS IN SUNLIT ATMOSPHERE AND TEMPERATURE DETERMINATIONS FROM VIBRATIONAL LEVELS N63-20986 21-12 OEVELOPMENT OF IMPLANTABLE TEMPERATURE TRANSMITTER AND AN ACTOGRAPH FOR COCKROACHES - BIDINSTRUMENTS N63-21062 21-17 MEASUREMENTS OF LUMAR TEMPERATURE VARIATIONS DURING ECLIPSE AND NORMAL LUMATION AND ISOTHERMAL RAPS OF SELECTED CRATERS N63-21621 22-29 OCIOANTITATIVE SECTIONS COREC TEMPERATURE M63-1533 13-29 TIME DEPENDENT ANALYSIS ASO-TR-61-667, VOL. III N63-1460: TEMPERATURE DISTRIBUTION AND AND AND AND AND AND AND AND AND AN	S UNDER LOA	TEMPERATURE DISTRIBUT	AND TWO-DIMENSIONAL TEMPERATU	LUNAR		CHTTIME	N1
TEMPERATURE DETERMINATIONS FROM VIBRATIONAL LEVELS 1063-20986 21-12 DEVELOPMENT OF IMPLANTABLE TEMPERATURE TRANSMITTER AND AN ACTOGRAPH FOR COCKROACHES - BIDINSTRUMENTS 1063-21062 21-17 MEASUREMENTS OF LUMBA TEMPERATURE VARIATIONS DURING ECLIPSE AND NORMAL LUMBTION AND ISOTHERMAL RAPS OF SELECTED CRATERS 1063-21071 MEASUREMENTS OF	-14602 10	111 NA3-1440	ACD-T0-61-667, VOL. 111	14000 130030	10011110011001171000	SA-CR-50148	
DEVELOPMENT OF IMPLANTABLE TEMPERATURE TRANSMITTER AND AN ACTOGRAPH FOR COCKROACHES - BIGINSTRUMENTS M63-21062 21-17 MEASUREMENTS OF LUMAR TEMPERATURE VARIATIONS DURING ECLIPSE AND NORMAL LUMATION AND ISOTHERMAL MAPS OF SELECTED CRATERS N63-21621 22-29 MINERALLY OF CRATERIS N63-21621 22-29 MINERALLY OF CRATERIS N63-21621 22-29 MINERALLY OF CRATERIS N63-21621 23-29 MINERALLY OF CRATERIS NA3-21621 23-29 MINERAL	CT AND	TION ANOMALY IN SURFA	TEMPERATURE DISTRIBUTION ANOM OF HEATED OR COOLED WALL - JA	TIONAL LEVELS	NS FROM VIBRATIONAL	MPERATURE DETERMINATIONS F	
MEASUREMENTS OF LUMAR TEMPERATURE VARIATIONS DURING ECLIPSE AND NORMAL LUMATION AND ISOTHERHAL MAPS OF SELECTED CRATERS M63-21621 22-29 MARGIN AND NITROGEN PLASHA JETS M63-15510 MRG-1-15510 MRG-1-15	NT	ANSFER COEFFICIENT	INFLUENCE ON HEAT-TRANSFER CO		LE TEMPERATURE TRAF	VELOPMENT OF IMPLANTABLE TO	
MEASUREMENTS OF LUMAR TEMPERATURE VARIATIONS DURING ECLIPSE AND NORMAL LUMATION AND ISOTHERMAL MAPS OF SELECTED CRATERS N63-21621 22-29 INFRARED SPECTRA AND TEMPERATURE DISTRIBUTIONS ARGON AND NITROGEN PLASMA JETS NA3-1651	AVE	Y, AND PRESSURE DISTR	TEMPERATURE, VELOCITY, AND PR	21062 21-17		ACTOMAPH FOR COCKROA	A
MAPS OF SELECTED CRATERS N63-21621 22-29 INFRARED SPECTRA AND TEMPERATURE DISTRIBUTED ARGON AND NITROGEN PLASMA JETS	-15704 12	N63-1570	Delt will be the best of the b	1 SOTHERMAL	L LUNATION AND ISO	RING ECLIPSE AND NORMAL LU	90
QUARTITATIVE CRECTROSCORIC TEMPERATURE ARI -63-35 NA3-1451:	TRIBUTIONS	LASHA JETS	ARGON AND NITROGEN PLASHA JET				
DETERMINATION OF PLASMAS	-16512 . 14	N63-1651	ARL-63-35	acherinove	IC TEMPERATURE	TERMINATION OF PLACHAS	64
ARL-62-660 N63-21786 22-24 HEAT TRANSMISSION IN LEADS OF ROCKETSONDE	SONDE			11786 22-24	N63-21786	L-62-460	AS

12-18

N63-16054

N63-16285 13-14

SUBJECT INDEX SURFACE EMISSION OF ELECTRONS, BARIUM COMPOUNDS OPERATING TEMPERATURE, EVAPORATION RATE N63-14836 II-THERMISTOR, MIND AND TEMPERATURE DISTRIBUTION AND ENERGY EXCHANGE IN STRATOSPHERE ELECTRONIC SWITCHES WITH COMPLEMENTARY
TRANSISTORS - APPLICATION, CIRCUITS, EFFECT OF
TEMPERATURE, CHARACTERISTICS N63-15108 1 HEAT TRANSFER, TEMPERATURE DISTRIBUTION AND HALL STATIC PRESSURE OF CIRCULAR CYLINDER IN SUPERSONIC MIND TUNNEL MASA-TR-R-104 EFFECT OF TEMPERATURE AND CARRIER GAS ON LOSS RATE OF TRITIUM FROM RADIOACTIVE FOILS EXACT SOLUTIONS TO EQUATIONS GOVERNING VELOCITY, TEMPERATURE, AND PRESSURE DISTRIBUTIONS IN GASEOUS DETONATION MAVES - GAS DYNAMICS STRAIN RATE AND TEMPERATURE EFFECTS ON FRACTURE TOUGHNESS, CRACK FORMATION, AND YIELD STRENGTH OF NOTCHED AND UNNOTCHED MILD STEEL SPECIALENS NOS-15366 12-1 N63-18542 17-11 VELOCITY OF INTERFACE BETWEEN LIQUID AND VAPOR PHASE OF SUPERHEATED LIQUID & TEMPERATURE DISTRIBUTION IN LIQUID PHASE N63-20427. FRACTURE SURFACE CONFIGURATION OF STEEL AFFECTED BY TEMPERATURE AND GEOMETRY WAL TR 320.1/10 N63-15625 12-TEMPERATURE DISTRIBUTION IN EXTERIOR REGION OF SPHERICAL CAVITY WITH CONSTANT SURFACE TEMPERATURE PIBAL-665 N63-20475 20-13 MATERIAL BEHAVIOR IN RANDOM STRESS-TEMPERATURE-TIME ENVIRONMENT NO. TEMPERATURE DISTRIBUTION IN STELLAR ATMOSPHERE -EFFECTS OF TEMPERATURE ON HUMAN PERFORMANCE -BIBLIOGRAPHY AMRL-TDR-63-13 N63-16285 13 AFCRL-63-829 N63-20834 21-29 TEMPERATURE DISTRIBUTION IN CYLINDRICAL FUEL ELEMENTS COOLED INTERNALLY EFFECT OF STATIC & DYNAMIC LOADING & TEMPERATURE ON YIELD STRESS OF IRON AND MILD STEEL IN TENSION AND COMPRESSION — STRUCTURAL DYNAMICS ATMOSPHERIC TURBULENCE - WIND VELOCITY AND
TEMPERATURE DISTRIBUTION IN GROUND SURFACE LAYER
N63-21143 22-11 METHODS FOR PREDICTING BRITTLE FRACTURE
TEMPERATURES OF ROLLED ARMOR STEEL - SURFACE
VEHICLE DESIGN APPLICATIONS - STRUCTURAL DYNAMICS
NO3-16609 14-1 TEMPERATURE DISTRIBUTIONS FROM DISSIPATION CALCULATED FOR VISCOELASTIC SLAB & HOLLOW CYLINDER SUBJECTED TO CYCLIC SHEAR LOADING N63-22043 22-26 AEES-63-4 SPECIFIC HEAT AT CONSTANT VOLUME OF PARA-HYDROGEN AT TEMPERATURES FROM 15 TO 90-DEG K AND PRESSURES TO 340 ATM NBS-R-270 R63-16685 14-23 EFFECT OF VARIABLE THERMAL PROPERTIES AND TEMPERATURE DISTRIBUTION ON ONE-DIMENSIONAL HEAT TRANSFER IN RADIATING FINS OF ELECTRIC MOTOR 22-13 CODE FOR COMPUTING TRANSIENT OR STEADY STATE TEMPERATURE DISTRIBUTIONS - IBM 7090 COMPUTER PROGRAM N63-23342 24-13 K-1494 TEMPERATURE EFFECT CF HEAT EFFECT
INFLUENCE OF TEMPERATURE AND PREFERRED DRIENTATION
ON HALL COEFFICIENT AND RESISTIVITY OF PURE
N63-10424 01-23 EFFECT OF TEMPERATURE AND STRAIN RATE ON CRACK TOUGHNESS OF MILD STEEL TEAM-235 N63-10892 02-33 THERMODYNAMIC PROPERTIES OF NITROGEN FROM 64-DEG TO 300-DEG K BETWEEN 0.1 AND 200-ATMOSPHERES NBS-TN-129 06-2 EFFECTS OF NEUTRON IRRADIATION AND ELEVATED

-02

-29

AWE

-30

0

-21

-18

-13

RF

-33

-13

-23

-13

-15

-26

M

13

13

13

12

33

RS

13

5 13

24

RAC-973

SPECIFIC HEAT OF SATURATED LIQUID PARA-HYDROGEN FROM 15 TO 32-DEG K AS MEASURED BY A CALORIMETER CRYOSTAT NA3-14487 KINETICS OF STRESS CORROSION FOR VARIOUS STRUCTURAL ALLOYS AT ROOM AND ELEVATED TEMPERATURES - MICROSTRUCTURE EFFECTS ASD-TR-61-713, PT. 11 N63-166 N63-16690 14-33 TRANSFORMATION STABILIZATION IN STEELS - EFFECT OF AUSTENITIZING TEMPERATURE ON COOLING TRANSFORMATIONS IN 43XX STEELS RADIANT ENERGY TRANSFER IN MULTICOMPONENT GAS MIXTURES - ISOTHERMAL AND NONISOTHERMAL SIMILARITY PARAMETERS 14-11 FAILURE MECHANISMS - EFFECTS OF TIME AND TEMPERATURE ON RESISTANCE TO FAILURE N63-16871 14-17 EFFECT OF REACTOR TEMPERATURE DW CRITICALITY FACTOR - CROSS SECTION AND FLUX DISTRIBUTION AT THERMAL ENERGY LEVELS RM-3089-PR N63-17486 16

TEMPERATURE SENSITIVE ABSORPTION BANDS OF AMMONIA AND ITS ISOTOPES N63-17781 16-23 CYCLIC TEMPERATURE EFFECTS ON METAL MATERIALS AND STRUCTURES - MATERIALS SCIENCE M63-10723 17-3

THERMODYNAMIC PROPERTIES OF POLYETHYLEME OVER TEMPRANGE TO 6000-DEG K AND PRESSURES TO 1 MILLION ATM - TABLES AND GRAPHS
RM-3709-PR
NA3-19161 18-33

AMBIENT TEMPERATURE EFFECT ON RELATION BETWEEN SKIN TEMPERATURE AND BLOOD FLOW IN RABBIT EARS AAL-TDR-62-45

ELECTROSTATIC VOLTAGE AND CAPACITANCE ON ACTIVE NEW MEARING ARCTIC CLOTHING ASSEMBLIES AT

HIGH CURRENT DENSITY CATHODE TUBES - UNIFORM

TEMPERATURE EFFECT ON MICROYIELD POINTS IN PRESTRAINED MAGNESIUM SINGLE CRYSTALS

TEMPERATURES ON 2 TYPE 347 STAINLESS STEEL N63-12998

TEMPERATURE EFFECTS IN PHOTOMULTIPLIERS AND ASTRONOMICAL PHOTOMETRY N63-13042 07-05

DESIGN OF HOT COMPRESSION STRUCTURES FOR AIRCRAFT WITH STRESS-STRAIN AND WEIGHT LIMITATIONS - NONDIMENSIONAL APPROACH

THERMODYNAMIC FUNCTIONS FOR CARSON DIOXIDE IN THE RANGE 40-DEG C TO 1000 DEG C AND 1 BAR TO 1400

SOLID ELECTROLYTE FUEL CELL DESIGN - CELL AREA,
OPERATING TEMPERATURE, AND HEAT EXCHANGE, VOLTAGE
OUTPUT IN SERIES CONNECTION N63-14133 09-0

BARS PRESSURE N63-13614

N63-13555

N63-14204

07-18

08-34

SI

F TIN A

TEMPERATURES FROM PLUS 5 TO MINUS 43-DEG C AAL-TDR-63-12 N63-19239 18-19	LAMS-2952 N63-22378 23-18
ULTRAHIGH VACUUM AND TEMPERATURE EFFECTS ON VIABILITY OF SPORE AND SOIL ORGANISMS	COLD AMBIENT TEMPERATURE EFFECT UPON ADRENAL GLANDS IN MICE AAL-TOR-62-58 N63-22714 23-16
N63-19474 19-16	CALCIUM, IRON, AND VITAMIN 812 ABSORPTION DURING
EFFECT OF TEMPERATURE ON ERYTHROCYTE FORMATION RATE IN RATS ALL-TRO-42-20 NA3-19439 19-14	ENVIRONMENTAL TEMPERATURE ALTERATIONS AAL-TN-62-10 N63-22719 23-16
AAL-TDR-62-20 N63-19639 19-16	NICKEL ANISOTROPY CONSTANT DEPENDENCE ON
STRENGTH OF ALUMINUM OXIDE AND MAGNESIUM OXIDE AS A FUNCTION OF GRAIN SIZE AND TEMPERATURE — REFRACTORY MATERIAL	TEMPERATURE AND SATURATION MAGNETIZATION JPRS-21676 N63-23608 24-18
RAD-TR-63-32 N63-19966 19-19	ANALOGIES FOR TRANSIENT TEMPERATURE DEPENDENT
INFLUENCE OF ENVIRONMENT & HIGH TEMPERATURE ON CRACK PROPAGATION IN NICKEL & NICKEL BASED ALLOYS N63-20085 20-18	LINEAR VISCOELASTIC MEDIA AAE-63-2 TEMPERATURE GRADIENT
17-15 SHIP I-5H	TEMPERATURE VARIATION OF THE ORDER DEPENDENT
TANTALUM SPECIFIC HEAT-EMISSIVITY RATIO AT HIGH TEMPERATURES ASD-TOR-63-371 N63-20118 20-25	CONFIGURATIONAL ENERGY AND LATENT HEAT OF ORDER- DISORDER TRANSFORMATION IN COPPER-GOLD ALLOYS AROD-1931-5 N63-10366 01-25
HIGH TEMPERATURE RADIATION-RESISTANT GALLIUM	APPROXIMATION METHOD FOR MEASURING TEMPERATURE AND
ARSENIDE SOLAR CELL ARRAYS - RESEARCH AND FABRICATION RESULTS	PRESSURE GRADIENTS AND DENSITY DISTRIBUTION IN UNSYMMETRICAL OBJECTS USING SCHLIEREN PHOTOGRAPHS
RCA-AED-R-1875 N63-20239 20-06	N63-12270 05-11
TEMPERATURE DEPENDENCE OF HETEROGENEOUS ATOMIC- HYDROGEN CARBON REACTION N63-20260 20-29	THERMAL STRESSES IN RECTANGULAR PLATES CAUSED BY SPANWISE TEMPERATURE GRADIENT ARL-63-4 N63-14716 10-33
ANGLE OF INCIDENCE AND TEMPERATURE VARIATION	THERMAL NEUTRON DIFFUSION LENGTH IN LIGHT WATER AT
EFFECTS ON INFRARED FILTERS N63-20488 20-23	VARIOUS TEMPERATURES
FAR INFRARED SPECTRA OF CRYSTALS AND SOLIDS IN A LARGE RANGE OF TEMPERATURES	GEAP-4018 N63-15497 12-23
AFCRL-63-326 N63-20505 20-25 ELECTRICAL CONDUCTIVITY OF URANIUM OXIDE AS	COMPRESSIBLE LAMINAR BOUNDARY LAYER UNDER ARBITRARY PRESSURE AND TEMPERATURE GRADIENTS ASD-TDR-62-962 NG3-13-01
FUNCTION OF TEMPERATURE AND PARTIAL PRESSURE OF	HVID TEGILLERILLI I MORANA MALINIS FALVICE PROBLEMENTO
0XYGEN AEET/CD/13 N63-20954 21-25	MECHANISM OF ATMOSPHERIC TURBULENCE - DENSITY AND TEMPERATURE GRADIENTS CREATING BUYANCY FORCES N63-16815 14-11
MAGNETIC PROPERTIES OF THULIUM - EFFECT OF	BRITTLE CRACK PROPAGATION AND ARREST - EFFECT OF
TEMPERATURE ON STRUCTURAL STABILITY N63-21002 21-23	TEMPERATURE GRADIENT
TEMPERATURE-FLOW INSTABILITY CAUSING OSCILLATION	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
IN HELIUM LAMS-2934 N63-21017 21-13	EFFECT OF TRANSVERSE TEMPERATURE GRADIENTS ON HEAT TRANSFER AND FRICTION FOR LAMINAR FLOW OF GASES TID-17792 15-13
VIABILITY OF SPORES SUBJECTED TO ULTRAHIGH VACUUM,	METEOROLOGICAL REPORT - ATMOSPHERIC PHENOMENA AND
GAMMA RADIATION, AND ELEVATED TEMPERATURES NASA-CR-51102 N63-21109 21-16	CLIMATOLOGICAL METHODS - TEMPERATURE GRADIENTS AND WIND PROFILE PARAMETER CALCULATIONS
EVALUATION OF CRITICAL PROPERTIES OF SELECTED ELECTRONIC PACKAGING MATERIALS UNDER HIGH VACUUM	EUR-276.1 N63-18730 17-21
AND TEMPERATURE RANGE OF MINUS 40 TO 300-DEG F NASA-CR-51244 N63-21313 21-19	DEFECTS IN ANTIMONY DOPED SILICON - THERMAL GRADIENTS, RADIAL STRESS, DISLOCATIONS, SLIP, AND PRECIPITATION N63-21231 21-18
MAGNETIC PROPERTIES OF PIEZOELECTRIC GALLIUM-IRON OXIDE - TEMPERATURE EFFECTS, & EFFECT OF ALUMINUM	FLOW STABILITY BETWEEN ARBITRARILY SPACED
0x10€ ADDITIONS AFCRL-63-303 N63-21421 22-19	CONCENTRIC CYLINDRICAL SURFACES INCLUDING EFFECT OF A RADIAL TEMPERATURE GRADIENT
HEATING AND FREEZING EFFECTS ON HONEYCOMB PANELS -	RPI-61 N63-22809 23-13
CORE-TO-SKIN BOND FAILURE N63-21661 22-17	TEMPERATURE INDICATOR FLIGHT CONTROL OF HYPERSONIC VEHICLES WITH A
POSITRON ANNIHILATION IN CONDENSED MATERIALS -	TEMPERATURE SENSING LOOP N63-11069 03-30
PRECISE MEASUREMENTS OF LIFETIMES AND INTENSITIES AS A FUNCTION OF TEMPERATURE N63-21715 22-23	TRANSDUCERS FOR HIGH VELOCITY GAS FLOW TEMPERATURE MEASUREMENT WITH DESIGN CRITERIA DETERMINED FROM THEMMOCOUPLE MEASUREMENTS N63-12272 05-51
TIME AND TEMPERATURE EFFECT OF HEATING ALUMINUM	TEMPERATURE TRANSDUCER FOR IN-FLIGHT MONITORING
A053 N63-21868 22-18	OF SKIN PANEL SURFACE TEMPERATURES - EFFECTS OF INSULATION AND VIBRATION ON ACCURACY
EFFECT OF TIME AND TEMPERATURE UPON COMPRESSIVE STRENGTH OF CASTABLE EDGING	ATL-D-811 N63-12288 05-15
A075 N63-21883 22-17	TEMPERATURE MEASUREMENT CF GALORIMETRY CF THERMISTOR
EFFECT OF DIP SOLDERING AT VARIOUS TEMPERATURES & TIMES ON VARIOUS PRINTED CIRCUIT BOARDS & SOLDER-	CF THERMOCOUPLE
RESIST MATERIALS PP-T-9672-2 N63-22349 23-09	CF THEAROMETER TEMPERATURE DETERMINATION FADM A CLOUD OF ALKALI
TARLEY CONCERNS AND	VAPOR IN THE UPPER ATMOSPHERE
TEMPERATURE EFFECT ON SOLUBILITY OF TANTALUM IN LIQUID PLUTONIUM	AFCRL-62-1049 N63-10122 01-29

3-16 NG 3-16

4-18

4-23

R-1-25 AND PHS 5-11 BY 0-33 R AT 2-23

3-11 AND 1-11 **OF** 5-33 HEAT 5-13

AND 7-21

-18

1-13

-30 TURE OH 1-11

2.5

-15

.1

-29

SPECTROSCOPIC TEMPERATURE AND PRE	SSURE HEASUR	EMENT	PRECISION JET EXHAUST TEMPERAT	URE INDICATOR	FOR
JPL-TR-32-251	N63-10245	01-29	ARL/F-33	N63-19903	19-15
DIRECT MEASUREMENT OF TONOSPHERIC		01-12	MEASUREMENT OF ATMOSPHERIC DEN AND PRESSURE AT WOOMERA ON MAR FALLING SPHERE METHOD	SITY, TEMPERAT	MALTH.
INFRARED RADIATION AND TEMPERATUR SOLID PROPELLANT FLAMES - ARCITE- TR-800-5	366	05-26	SAD-121 HUMAN AND ANIMAL GRADIENT LAYE	N63-19997 R CALDRIMETRY	19-12
SCHLIEREN SENSITIVITY AND QUANTIT	ATIVE MEASUR N63-13113		THREE-VENT PROBE FOR MEASURING		20-16 RESSURE
HETEOROLOGICAL ROCKET HETWORK WIN			AND TEMPERATURE - MEASURING AP	N63-20183	20-15
IRIG-109-62 TE MOTTATION INTO THE MECHANISMS	CALL VYTILIS	HBY	THERMAL CONVECTION - FLUCTUATI TEMPERATURE AND LINEAR STABILI		
FINE STRUCTURE OF NITRIC OXIDE GA		- SM	NASA-TH-X-50227 NASA-TH-X-50227		20-13
NOLTR-62-65	HERNSHIE STEEN	10-07	HETEOROLOGICAL ROCKET FIRING D	ATA SHEETS -	-ACAM
ELECTRON TRANSITION FOR AIR DXYGE MITROGEN IN TEMPERATURE RANGE 400 AVCO-EVERETT RES. REPT149	0 TO 9000-DE	ILAR G 11-23	M63-13131 01-16	N63-21473	22-21
INFRARED MONOCHROMATIC RADIATION USED TO DETERMINE TEMPERATURES IN DETONATIONS - PYROMETER TECHNIQUE	GAS HIXTURE		ERROR ANALYSIS OF MODIFIED HUM MEASURING SET UNDER FIELD COMO AFCRL-63-845		THE PARTY OF THE P
		11-15	OF BANDWIDTH AND FREQUENCY RES		
HIGH TEMPERATURE MEASUREMENTS BY		12-24	AND VIBRATION NASA-TM-X-50425	-2 SERVE DRG 3.3	12ndl arven
TEMPERATURE AND DENSITY OF HYPERS		12-11	TEMPERATURE MEASUREMENT IN GAS MONOCHROMATIC RADIATION PYROME ARL-63-05		DEREEC.
DESIGN OF DIFFERENTIAL CALORIMETE OF HIGH TEMPERATURE HEATS OF SOLI UCRL-10631		TIONS	RELIABLE HYPERSONIC WIND TUNNE TEMPERATURE HEASUREMENT INSTRU ARL-63-162	L PRESSURE AN	DARAMIN 18-23 18431
PLEXIGLAS COMBUSTION TEMPERATURE BURNING RATES OF POLYSTYRENE, ALL HYDRIDE AND POLYETHYLENE R-5179		NUM 1084	SPECTRONETRIC MEASUREMENTS OF ARC MEATED JETS AND TUNNELS MASA-TN-D-1960	GAS TEMPERATU	RES IN
THERMOCOUPLE MATERIALS FOR TEMPER TO 4500 DEG F ON REENTRY VEHICLE	LATURE MEASUR	Book Schlieb	ROCKETSONDE WIND AND TEMPERATU BETWEEN 30 & 70-KM FOR SELECTE	RE MEASUREMEN	SHIER
ASO-TDR-63-233	N63-16400	14-30		N63-22703	23-21
ATHOSPHERIG RADIATIVE TEMPERATURE MAKING TEMPERATURE MEASUREMENTS & ATHOSPHERE FROM SATELLITE	ITHIN EARTH	1872 ·	HYPERSONIC HEAT TRANSMISSION T CONFIGURATIONS WITH HEAT-SENSI ASD-TDR-63-530	TIVE PAINT	SPENATION.
ULTRAVIOLET RADIONETER FOR AUTOMA			SPECTROMETRY AND INFRARED MONO MEASUREMENTS OF PLASMA JET TEM		TATION
OF SURFACE TEMPERATURES IN 1000 TREGION	70 2500-DEG C	10/4X 15.19	LENGTHS	THEREPERENT	24-24
- SACTIVE OF WOLLIES	A YOUANA BUARA	14-15	LOWEST MEASURED TEMPERATURE IN RECORDED BY SOUNDING ROCKET	HARTHS ATMOS	
NIND AND TEMPERATURE BETWEEN 30 A THERMISTORS FOR ROCKETSONDE OF UR		RE 16-12	FACTORS DETERMINING APPLICABIL	ITY OF HIGH S	
CRANIAL MEASUREMENTS OF HUMAN INT	ERNAL BODY	20117. 10-16	QUENCHED AND TEMPERED STEELS T CONSTRUCTION NRL-5692	CETAL MERT. TER	Yallin
MICROCALOR IMETRY - MEASUREMENT OF BY RECORDING HEAT FLOW-RATE AND T	HEAT OF REA	CTION	EFFECT OF THICKNESS AND TEMPER FRACTURE TOUGHNESS OF STEEL SH	ING TEMPERATU	AH 194
was to 70 TO SEE FROM INTERPACTAL-TO	N63-19132	18-15	ONG EMBREAKERS STASS - PARTHERS STASS	H63-20003	
SODIUM LINE REVERSAL TEMPERATURE NITROGEN AND AIR IN SHOCK TUBE UTIA-TN-66	FLE STRENGTH	OF 1	ENSILE STRENGTH EVALUATION OF NEW GLASSES IN F RDR-1266-6	IBER FORM	(Artistic)
ICY ROCKET PROGRAM RESULTS - TEMP	MALE A TRANSPORT	N. Titles: 1910a	BERYLLIUM - STRENGTH, EFFICIEN	ALL TESTING A	6919W
DENSITY & RADIATION MEASUREMENTS		MALE TOWN	STRUCTURAL MATERIALS ASD-TR-61-692	N63-10445	02-94
IGY ROCKET-GRENADE WIND & TEMPERA	TURE HEASURE	HENTS 19-12	REINFORCEMENT OF METALS WITH I	H63-10692	02-17
THE SECTION AND HODOGRAPH ANALYS ROCKET AND RADIUSONDE MINDS AND S	IS OF CHURCH	III.	IMPACT STRENGTH OF ALUMINA FIE COMPOSITES WAL-TR-371/51	NA3-11231	134089
AIR TEMPERATURE MEASUREMENT - THE	经收益的证据的	30.13 (1.16	INTERNAL POLYMERIZATION OF THE	48633 AURA 2211	MUZEA
DETERMINATIONS	DATERS TERN IN	19-21	TYPES OF PAPER	H63-11447	03-19

	04-33	EFFECT OF IMPURITIES AND CRYSTAL TENSILE TRANSITION TEMPERATURE OF NASA-CR-50094	STRUCTURE OF CHROMIUM N63-17213	T 001
		TENSILE STRENGTH OF MAGNESIUM OXI	DE REPART 13	- Office
163-11707				16-19
		TENSILE STRENGTH TITEL - THE TENSILE T	D PROPELLEN	1 (102
163-11786	04-18	a HR-63-252 1-Car	N63-18083	16-19
AND DEFOR	MATION	CONTENT ON TENSILE STRENGTH AND S	E SIZE AND	FILLER
		COLD WORK AND NEUTRON IRRADIATION	EFFECTS ON	ATAG
ES OF TUNG	STEN	ZIRCALOY-2 0 ANNAL EGING DISTIN 30	5.807.2087.2.	31/33
163-12926	07-18	THERE INVALORABLE	20-50-8	100
NG FATIGUE		USING GAS BEARINGS FOR UNIAXIAL L	DADING	THIN
163-13183	07-18	ROLL FORMING OF REFRACTORY METALS	- TENSILE	CDAY.
		STRENGTH - HOLYBDENUM TITANIUM AL	LOY	
63-13574	08-18	ZONE REFINED BERYLLIUM RECRYSTALL		
163-14402	10-18	RIGIDITY FOR STABILITY - CORE TEN	SILE STRENG	THE
PERTIES OF			CD AMINER	
63-14403	1.128	VARIOUS ATMOSPHERIC, ANNEALING, A	ND ARGON	
UM ALLOYS				
	10-18	EFFECT OF BILLET HISTORY ON HOT E	XTRUDED STE	EL
TEST PERF	DRMED			
	GMO Zu	HIGH VACUUM, NUCLEAR RADIATION, D	YNAMIC TENS	
				21-19
UNEXERCIS OF	MEAS			
TH OF GLAS		PLATE	-MAGNESTUM	ALLERY
49-15-04	12-10		N63-21189	21-10
63-15481		TANTALUM ALLOY ADDITION TO NICKEL	N63-21189 -BASE ALLOY	21-10
O-PSI TENS	ILE		N63-21189 -BASE ALLOY ITY PROPERT	21-10 /S -
0-PSI TENS NUTS 163-15515	12-18	TANTALUM ALLOY ADDITION TO NICKEL INCREASE OF STRENGTH AND WORKABIL NASA-RP-26 TENSILE, THERMAL SHOCK 6 HOT GAS	N63-21189 -BASE ALLOY ITY PROPERT N63-21329 EROSION TES	21-16 75 - 71ES 21-18 STS OF
O-PSI TENS	12-18 DS10N	TANTALUM ALLOY ADDITION TO NICKEL- INCREASE OF STRENGTH AND WORKABIL NASA-RP-26 TENSILE, THERMAL SHOCK & HOT GAS TUNGSTEN-COATING COMBINATIONS AND FURNACE FOR HIGH TEMPERATURE TEST	N63-21189 -BASE ALLOY ITY PROPERT N63-21329 EROSION TES CONSTRUCTI	21-16 75 - 71ES 21-18 STS OF
O-PSI TENS: NUTS 163-15515 , AND CORRI USE AS CLAI	12-18 DSION DDING	TANTALUM ALLOY ADDITION TO NICKEL- INCREASE OF STRENGTH AND WORKABIL NASA-RP-26 TENSILE, THERMAL SHOCK & HOT GAS TUNGSTEN-COATING COMBINATIONS AND FURNACE FOR HIGH TEMPERATURE TEST ASD-TDR-63-459	N63-21189 -BASE ALLOY ITY PROPERT N63-21329 EROSION TES CONSTRUCTI	21-16 75 - 71ES 21-18 STS OF
NUTS NUTS 163-15515 , AND CORRI USE AS CLAI	12-18 0510N 001NG 12-18	TANTALUM ALLOY ADDITION TO NICKEL- INCREASE OF STRENGTH AND WORKABIL NASA-RP-26 TENSILE, THERMAL SHOCK & HOT GAS TUNGSTEN-COATING COMBINATIONS AND FURNACE FOR HIGH TEMPERATURE TEST ASD-TDR-63-459 TENSILE TESTING MACHINE FOR HIGH	N63-21189 -BASE ALLOY ITY PROPERT N63-21329 EROSION TES CONSTRUCTI S N63-21802	21-14 75 - 71ES 21-14 STS OF 10N OF 22-19
NUTS NUTS 163-15515 AND CORRI USE AS CLAI 163-15552 GLASS -	12-18 0510N 001NG 12-18	TANTALUM ALLOY ADDITION TO NICKEL- INCREASE OF STRENGTH AND WORKABIL NASA-RP-26 TENSILE, THERMAL SHOCK 6 HOT GAS TUNGSTEN-COATING COMBINATIONS AND FURNACE FOR HIGH TEMPERATURE TEST ASD-TDR-63-459 TENSILE TESTING MACHINE FOR HIGH VACUUM	-BASE ALLOY ITY PROPERT N63-21329 EROSION TES CONSTRUCTI N63-21802 TEMPERATURE	21-10 75 - 71ES 21-11 STS OF ION OF 22-11
0-PSJ TENS: NUTS 163-15515 , AND CORRI USE AS CLAI 163-15552 GLASS - 163-16476 MACHINE - 1	12-18 12-18 0510N 001NG 12-18	TANTALUM ALLOY ADDITION TO NICKEL- INCREASE OF STRENGTH AND WORKABIL NASA-RP-26 TENSILE, THERMAL SHOCK & HOT GAS TUNGSTEN-COATING COMBINATIONS AND FURNACE FOR HIGH TEMPERATURE TEST ASD-TDR-63-459 TENSILE TESTING MACHINE FOR HIGH VACUUM JPL-TR-32-358 TENSILE STRENGTH OF COATED D-36 N	N63-21189 -BASE ALLOY ITY PROPERT M63-21329 EROSION TES CONSTRUCTI S N63-21802 TEMPERATURE N63-21856	21-14 (S - (I ES 21-14 STS OF ION OF 22-19 ES 1W 22-31
0-PSI TENS NUTS 163-15515 , AND CORRI USE AS CLAI 163-15552 GLASS - 163-16476	12-18 0510N 001NG 12-18 14-19	TANTALUM ALLOY ADDITION TO NICKEL- INCREASE OF STRENGTH AND WORKABIL NASA-RP-26 TENSILE, THERMAL SHOCK & HOT GAS TUNGSTEN-COATING COMBINATIONS AND FURNACE FOR HIGH TEMPERATURE TEST ASD-TDR-63-459 TENSILE TESTING MACHINE FOR HIGH VACUUM JPL-TR-32-358 TENSILE STRENGTH OF COATED D-36 N A070 ALLOYING EFFECT ON TENSILE PROPER	N63-21189 -BASE ALLOY ITY PROPERT N63-21329 FRODNSTRUCTI S N63-21802 TEMPERATURE N63-21856 TOBIUM ALLO N63-21878 TIES AND WI	21-14 /S - FIES /21-11 STS OF ION OF 22-19 ES IN 22-31 OY -/22-11
O-PSI TENSI NUTS 163-15515 , AND CORRI USE AS CLAI 163-15552 GLASS - 163-16476 MACHINE - I TRUCTURAL 63-16618 G MACHINE - ONS - STRUC	12-18 12-18 2510N 2010G 12-18 14-19 HEAPON 14-17 -TURAL	TANTALUM ALLOY ADDITION TO NICKEL- INCREASE OF STRENGTH AND WORKABEL NASA-RP-26 TENSILE, THERMAL SHOCK & HOT GAS TUNGSTEN-COATING COMBINATIONS AND FURNACE FOR HIGH TEMPERATURE TEST ASD-TDR-63-459 TENSILE TESTING MACHINE FOR HIGH VACUUM JPL-TR-32-358 TENSILE STRENGTH OF COATED D-36 N A070 ALLOYING EFFECT ON TENSILE PROPER STRUCTURE OF TUNGSTEN-FIBER-REINFI NASA-TN-D-1568	N63-21189 -BASE ALLOY ITY PROPERT N63-21329 EROSION TES CONSTRUCTI S N63-21802 TEMPERATURE N63-21856 IOBIUM ALLO N63-21878 TIES AND NI ORCED COMPO N63-22110	21-14 /S - FIES 21-14 STS OF ION OF 22-14 ES IN 22-31 37 -/22-14 ICRO- 3517ES 22-14
0-PSI TENS: NUTS 163-15515 ., AND CORRIUSE AS CLAI 163-15552 GLASS - 163-16476 MACHINE - I TRUCTURAL 163-16618 G MACHINE -	12-18 12-18 2510N 2010G 12-18 14-19 HEAPON 14-17 -TURAL	TANTALUM ALLOY ADDITION TO NICKEL- INCREASE OF STRENGTH AND WORKABIL NASA-RP-26 TENSILE, THERMAL SHOCK & HOT GAS TUNGSTEN-COATING COMBINATIONS AND FURNACE FOR HIGH TEMPERATURE TEST ASD-TDR-63-659 TENSILE TESTING MACHINE FOR HIGH VACUUM JPL-TR-32-358 TENSILE STRENGTH OF COATED D-36 N A070 ALLOYING EFFECT ON TENSILE PROPER STRUCTURE OF TUNGSTEN-FIBER-REINF	N63-21189 -BASE ALLOY ITY PROPERT N63-21329 EROSION TES CONSTRUCTI S N63-21802 TEMPERATURE N63-21856 IOBIUM ALLO N63-21878 TIES AND NI ORCED COMPO N63-22110	21-16 /S - /IES /21-16 STS OF IDN OF 22-19 ES IN 22-39 22-31 ICRO- DSITES 22-16
O-PSI TENSI NUTS 163-15515 , AND CORRI USE AS CLAI 163-15552 GLASS - 163-16476 MACHINE - I TRUCTURAL 63-16618 G MACHINE - ONS - STRUC	12-18 12-18 0510N 001NG 12-18 14-19 MEAPON 14-17 CTURAL 14-17	TANTALUM ALLOY ADDITION TO NICKEL- INCREASE OF STRENGTH AND WORKABIL NASA-RP-26 TENSILE, THERMAL SHOCK 6 HOT GAS TUNGSTEN-COATING COMBINATIONS AND FURNACE FOR HIGH TEMPERATURE TEST ASD-TDR-63-459 TENSILE TESTING MACHINE FOR HIGH VACUUM JPL-TR-32-358 TENSILE STRENGTH OF COATED D-36 N A070 ALLOYING EFFECT ON TENSILE PROPER STRUCTURE OF TUNGSTEN-FIBER-REINF NASA-TN-D-1568 AUTOMATIC PROCESSING OF TENSILE TO FORTRAN COMPUTER PROGRAM HM-71570	N63-21189 -BASE ALLOY ITY PROPERT N63-21329 EROSION TES CONSTRUCTI S N63-21802 TEMPERATURE N63-21876 TOBIUM ALLO N63-21878	21-16 /S - /TIES /
0-PSI TENS: NUTS 163-15515 , AND CORRI 1058-15552 GLASS - 163-16476 MACHINE - 1 TRUCTURAL 63-16618 G MACHINE - ONS - STRUK 163-16619	12-18 12-18 12-18 12-18 12-18 12-18 14-19 14-19 14-17 TURAL 14-17	TANTALUM ALLOY ADDITION TO NICKELINCREASE OF STRENGTH AND WORKABIL NASA-RP-26 TENSILE, THERMAL SHOCK & HOT GAS TUNGSTEN-COATING COMBINATIONS AND FURNACE FOR HIGH TEMPERATURE TEST ASD-TDR-63-659 TENSILE TESTING MACHINE FOR HIGH VACUUM JPL-TR-32-358 TENSILE STRENGTH OF COATED D-36 N A070 ALLOYING EFFECT ON TENSILE PROPER STRUCTURE OF TUNGSTEN-FIBER-REINFINASA-TN-D-1568 AUTOMATIC PROCESSING OF TENSILE TO FORTAN COMPUTER PROGRAM HN-71570 TRANSVERSE MAGNETORESISTANCE OF H	N63-21189 -BASE ALLOY ITY PROPERT M63-21329 EROSION TES CONSTRUCTI S N63-21802 TEMPERATURE N63-21856 TOBIUM ALLO N63-21878 TIES AND MI ORCED COMPO N63-22110 EST DATA - N63-22423	21-14 /S - /T ES /
0-PSI TENS: NUTS 163-15515 , AND CORRI 105-15552 GLASS - 63-16476 MACHINE - I TRUCTURAL 63-16618 G MACHINE - STRUK 163-16619 AND IMPACT	12-18 12-18 12-18 12-18 12-18 14-19 14-19 14-17 14-17 14-18 (S15	TANTALUM ALLOY ADDITION TO NICKEL- INCREASE OF STRENGTH AND WORKABIL NASA-RP-26 TENSILE, THERMAL SHOCK 6 HOT GAS TUNGSTEN-COATING COMBINATIONS AND FURNACE FOR HIGH TEMPERATURE TEST ASD-TDR-63-459 TENSILE TESTING MACHINE FOR HIGH VACUUM JPL-TR-32-358 TENSILE STRENGTH OF COATED D-36 N AO70 ALLOYING EFFECT ON TENSILE PROPER STRUCTURE OF TUNGSTEN-FIBER-REINF NASA-TN-D-1568 AUTOMATIC PROCESSING OF TENSILE TFORTRAN COMPUTER PROGRAM HM-71570 TRANSVERSE MAGNETORESISTANCE OF M STRENGTH COPPER ALLOYS FOR USE IN	N63-21189 -BASE ALLOY ITY PROPERT N63-21329 EROSION TES CONSTRUCTI S N63-21802 TEMPERATURE N63-21856 IOBIUM ALLO N63-21878 TIES AND MI ORCED COMPO N63-22110 EST DATA - N63-22423 WIGH TENSILE CRYOGENIC N63-22289	21-14 75 - 71 ES 21-11 57 OF JOHN OF 22-15 22-15 22-16 23-16 23-16 24-16
	# 305 STAIN #63-11707 #SION- #63-11786 #D TUNGSTEN # AND DEFOR #63-12276 #IES & PRODI #63-12380 #ES OF TUNGS #63-12926 #NG FATIGUE #63-13183 #TEO TEMPER/ #TION, AND #63-13574 #TIES OF A ####################################	ASION— 163-11786 04-18 10 TUNGSTEN BASE 14 AND DEFORMATION 163-12276 05-18 ITES & PRODUCTION 163-12380 06-18 ITES OF TUNGSTEN 163-12926 07-18 ING FATIGUE 163-13183 07-18 INTED TEMPERATURES ITION, AND 163-13574 08-18 ITES OF A ITES OF	TENSILE STRENGTH OF MAGNESIUM OXIDE— TENSILE STRENGTH OF MAGNESIUM OXIDE— TENSILE STRENGTH MASA—1707 04-33 ASION— POLYCRYSTALLINE MAGNESIUM OXIDE— TENSILE STRENGTH MR—63-252 MECHANICAL PROPERTIES OF HIGHLY F ELASTOMERS—INFLUENCE OF PARTICL CONTENT ON TENSILE STRENGTH AND SI CL/63/41 COLD HORK AND NEUTRON IRRADIATION TENSILITY, PLASTICITY, AND FRACTU LIFE OF TUNGSTEN MG3—12926 07-18 MG63—12926 07-18 MG63—12926 07-18 MGF FATIGUE MG7—18 MG7—18 MG7—18 MG7—18 MG7—18 MG7—19—18 MG7—19—18 MG7—18 MG7—19—18 MG7—	TENSILE STRENGTH OF MAGNESIUM OXIDE MASA-CR-90094 TENSILE STRENGTH OF MAGNESIUM OXIDE MOS-18080 POLYCRYSTALLINE MAGNESIUM OXIDE — DISLOCATION TENSILE STRENGTH MR-63-252 MOS-18080 MOTUMOSTEN BASE 4 AND DEFORMATION MOS-12276 MOS-18 MECHANICAL PROPERTIES OF HIGHLY FILLED CONTENT ON TENSILE STRENGTH AND SHEAR MODULI MOS-12280 MOS-12280 MOS-128 MECHANICAL PROPERTIES OF HIGHLY FILLED CL/63/41 MOS-12800 MOS-

TENSION AND STRESS STRAIN DISTRIBUTION IN NOTCHED

14312 15-18 16-19 -AND 6-19 LLER 8-19 OF 81-6 E 9-33

9-18 FORM 9-17

0-19

0-19

0-18 Y OF 0-19 EN 1-19 NGTH LOY 1-18

S 1-18

OF 2-19 18 2-33 2-18 0-TES 2-18

3-16

4-18

DECOMPOSITION OF THORIUM NITRATE N63-23630 24-18	MSD-TDR-63-361 OF CATRACHT WIT JONE TANKS 16-18
TENSILE STRESS CYCLING FATIGUE BEHAVIOR OF MATERIALS FOR SUPERSONIC TRANSPORTS - TENSILE STRESS-STRAIN DATA	TENSION YIELD POINT OF DISLOCATION IN ATMOSPHERE OF IMPURITY ATOMS MASA-CR-50498 M63-18179 16-33
NASA-CR-50365 15-33	HYPERTENSION AS A HEREDITARY DISORDER - EDUCATIVE
STATIC AND DYNAMIC UNIAXIAL TENSILE STRESS ON THE STEADY STATE PERMEATION OF HELIUM THROUGH HULTIPHASE, POLYCRYSTAL CERANICS & FUSED SILICA	TECHNIQUE AS A HEARS OF LOWERING BLOOD PRESSURE N63-18956 18-16
UCRL-10755 2411111142 30 N63-18986 18-24	HIGH TEMPERATURE TENSILE CREEP OF GRAPHITE WADD-TR-61-72, VOL. 18 N63-20416 20-19
SHEAR & TENSILE STRESSES IN CORNER NEAR CUT-OUTS COMPARED WITH PANELS OF RIVETED, SPOT-WELDED, BONDED CONSTRUCTION ARL/SM 201 1000-000000000000000000000000000000	STRESS CONCENTRATION EFFECT ON BRITTLEMESS. TENSILE DEFORMATION, AND PLASTIC FLOW IN CERAMICS
STOOL PRESENT TEST NOT TO THE COLD TO SEE THE	AND METALS ASO-TOR-63-380 HUAM-HUM MULA TO M63-20703 21-33
ALUMINUM ALLOY PROPERTY CALCULATIONS - OVER-AGING ACCUMULATIVE EFFECTS OF SOAKING AT THO OR MORE TEMPERATURES - TENSILE TEST ACC-CP-506 - 18 N63-22207 23-18	TRIAXIAL TENSION FAILURE OF VISCOELASTIC MATERIALS ARL-63-152 N63-22499 23-19
TITANIUM REACTIVITY WITH GASEOUS NITROGEN	THEORY OF ELASTIC STABILITY AND POSTBUCKLING.
TETROXIDE UNDER SEVERE CONDITIONS OF TENSILE RUPTURE	TENSOR ANALYSIS N63-10755 02-20
DMIC-MEMO-173 N63-22817 23-18	MEASUREMENT OF STRAIN ENERGY FUNCTION N OF STRESS
SA SURFACE TENSION	TENSOR EQUATION - NONLINEAR PHYSICAL PROPERTY JPL-TR-32-365 N63-13445 08-33
OSCILLATIONS ON DYNAMIC MODULUS OF ALUMINUM	DEPOLARIZATION OF SCATTERED LIGHT BY N-PARAFFIN WAPORS TO EXPLORE PRINCIPLE OF ADDITIVITY OF BOND
N63-11574 04-33 STRAIN MEASUREMENTS ON ALUMINUM-COPPER-MAGNESIUM	POLARIZABLE TENSORS ONR-TR-63 M63-22972 23-23
ALLOY PLATES LOADED IN TENSION METERS FOLIVERS	
PLASTIC DEFORMATION OF CEMENTED ALLOYS - DUCTILITY	TENSOR ANALYSIS TENSOR CODE - CYLINDRICALLY SYMMETRIC PROBLEMS WITH TWO SPATIAL VARIABLES - NUMERICAL ANALYSIS
OF TUNGSTEN FIBER-COPPER-NICKEL COMPOSITES IN	UCRL-7316 N63-19162 18-21
TENSION AND COMPRESSION, EFFECT OF ADDITIVES WAL-TR-372/32-3-T3 N63-12377 06-18	TERBIUM-161 ELECTRONIC, NUCLEAR & HYPERFINE STRUCTURE OF
COLD PRESSOR TEST - BLOOD PRESSURE & HYPERTENSION SAM-TOR-62-137 ASS CHOCHAR MOST N63-12877 07-16	UCRL-10747 REBIUM-161 AND THULIUM-171 N63-19225 18-23
EFFECTS OF AIR CONTENT AND WATER PURITY ON LIQUID TENSION AT INCIPIENT CAVITATION IN VENTURI FLOW NASA-TN-D-1459	TERMINAL HETHOD FOR DETERMINING CHARACTERISTIC IMPEDANCES AND DEGREES OF MISMATCH OF TWO-TERMINAL PAIR
GIVE IN EXPANSION OF CORRUGATED TUBES TIL/T-5032 HERMAN TEAT BOX 211 N63-14640 x 10-33	NETWORKS FTD-TT-62-481/16264 N63-10416 D1-04
EFFECT OF CHRONIC EXPOSURE TO HYPOXIA ON BLOOD PRESSURE AND THYROID FUNCTION OF HYPERTENSIVE	AIRPORT TERMINALS - AIRCRAFT SERVICING OPERATION, DESIGN, LOADING AND GATE POSITIONS N63-13712 08-10
PATS V SAM-TOR-63-4 A 11710 30013114 V N63-15202 11-16	SYNTHESIS OF THE TERHINAL CONTACT-DIGGE METHORKS
FRACTURE AND FRACTURE MORPHOLOGY OF GLASS UNDER	\$ [-0 PIBMRI-1144-63
TENSION, TORSION, AND FLEXURE TEAM-242 AM TENSION OF THE TENSION O	DIFFERENTIAL GAME WITH INTEGRAL PAYOFF AND
STATISTICAL ANALYSIS OF A BAR IN TENSION ASD-TDR-62-379 N63-15827 13-33	CONTINUOUS TERMINAL PAYOFF WITHOUT PURE STRATECY SOLUTION RM-3012-PR RM-3012-PR
ELASTIC BEHAVIOR OF NONADHESIVE RUBBER BINDER	TERMINAL GUIDANCE MASTELLSM
GLOSE-PACKED WITH RIGID SPHERICAL PARTICULATE	CF GUIDANCE SYSTEM STAR INSULATED THAT INCREMENT
GALCIT-SH-63-2 N63-15932 13-33	SIMULATION OF MAP CORRELATION FOR BALLISTIC OR ORBITAL MEAPON TERMINAL CORRECTION
LIQUID-LIQUID INTERFACIAL-TENSION MEASUREMENT WITH OSCILLATING JET	THE PERSON OF THE PRINCIPLE PHASE OF TRUIT IN ME
UCRL-10717 N63-16506 14-11	OF SATELLITE RENDEZVOUS
ON VIELD STRESS OF IRON AND MILD STEEL IN TENSION	NASA-TR-R-1280MAND AND FURNISHED TAR-REAL
AND COMPRESSION - STRUCTURAL DYNAMICS	HONOLULU TERMINAL RADAR SERVICE AREA AND MAMAIIAN ISLANDS DOMESTIC ENROUTE AREA - AIR TRAFFIC
TENSILE IMPACT ON RUBBER AND NYLON - IMPULSE WAVE	CONTROL FACILITIES AND SINULATION NOS-13099 08-08
PROPAGATION AND CREEP IN POLYMERIC MATERIALS - STRUCTURAL DYNAMICS 114 22 22 16 16617 14-19	GUIDANCE OF SPACE VEHICLES - MIDCOURSE AND
INTERACTION OF IMPURITY ATOMS AND DISLOCATIONS IN	TERMINAL GUIDANCE N63-14715 12110-2
REFRACTORY METALS - MOLYBDENUM SINGLE CRYSTAL - STRAIN AGING AND TENSILE CREEP	TERMINAL GUIDANCE FOR REENTRY VEHICLES - RECOVERY DEVICES AND GROUND SUPPORT
ASD-TDR-63-238 N63-18079 16-18	OF ACCELERATION - S-FORCE EFFECT

TERMINAL VELOCITY ... VACUUM-AIR HISSILE BOOST CONCEPT - ESTINATION OF

TERMINAL VELOCITY IMPARTED TO PROTUBE	DJECTILE IN	LAUNCH	ABL/X-87 ATMATIZ RATACHTYPOL	N63-19715	19-2
AROD-N-62.4 TERMARY	N63-14611	10-31	TESLA DISCHARGE NITROGEN AND OXYGEN RECOMBINATION SURFACES, EFFECT OF TESLA DISCHAR		
UNSTEADY DIFFUSION WITH RECOMBING MIXTURE OF DIATOMIC MOLECULES, DI			RECOMBINATION HEAT TRANSFER	N63-11742	
NASA-TN-D-1651	N63-12930	07-11	TESSERAL HARMONICS TESSERAL HARMONICS OF GRAVITATION	AL FIELD AN	in.
TERNARY NOTATION HIGH TEMPERATURE ELECTRON IRRADIA	TION TESTI	NG OF	GEODETIC DATUM SHIFT DERIVED FROM OBSERVATIONS OF SATELLITES	CAMERA	
ADDITIVE FOR REDUCTION OF RADIATI TERPHENYL USED AS ORGANIC COOLANT IDO-16839	S - SANTOW	AX OMP	STANGERS OF THE PROPERTY OF THE PARTY OF THE	N63-16994	45.33
HERRIS BELIEBURG FRANCISCHE LINGATAN	ANTHON SUPPLY	AZ II II III	S ALTITUDE TEST	972403 63000	
FRNARY SYSTEM TERNARY SYSTEM OF ALUMINUM-MAGNES PHASE DIAGRAMS OF CROSS-SECTIONS	STUM-LITHIUS	H -	S COLD PRESSOR TEST S COLD MEATHER TESTING	DIA MUNTAU	JA S
ASIC-32	N63-20266	20-18	S COMPRESSION TESTING S CORROSION TEST	STATASTINA	
ERRAIN CF TOPOGRAPHY			S DESTRUCTIVE TESTING S DROP TEST		
SCALE MODEL CRATER PRODUCTION BY THROUGH TERRAIN OF RANDOMLY VARYI SC-4735/RR/		DN	S ENVIRONMENTAL TESTING		
TERRAIN QUANTIFICATION - SURFACE	SEMBETOV.	SETURE.	S FLIGHT TEST S FUEL TESTING		
TOPOGRAPHY, AND MAPPING	LENDOS NORM		S GROUND TEST		243
AFCRL-63-208	N63-13329	08-12	S HEAT TEST	STATE OF THE STATE OF	
FREQUENCY ASSIGNMENT FOR COMMUNIC			S LOAD TEST	2801744410	
AND GROUND STATION - TROPOSPHERIC	SCATTER, 1		S MANN-WHITNEY-WILCOXON U TEST		
SHIELDING, AND MICROWAVE TRANSMIS	N63-15048	11-08	S MATERIAL TESTING S NONDESTRUCTIVE TESTING	Righall Has	
CONTRACTOR OF STATE O			S STATIC TESTING	ASTRUM MOZ	14
FREQUENCY DISTRIBUTIONS OF SPECTR REFLECTED RADIATION FROM TERRAIN		-	S TANK TEST S ULTRASONIC TESTING		10
RPA-6-62	N63-16027	13-21	S VIBRATION TESTING		
INFLUENCE OF GROUND INHOMOGENEITI	ES ON RECES	PTION	S WIND TUNNEL STABILITY TEST S X-RAY TESTING	NEIGH AND C	
OF SKYWAVE SIGNALS - CONDUCTIVITY	CONTRAST N	IEAR A	TEST CHAMBER		AW TO
S-75-R-26	N63-19430	19-08	PROTOTYPE BURST TEST CHAMBER FOR PRESSURE TUBES FROM HANFORD REACT		
TERRAIN ANALYSIS OF THE UNITED ST FEATURES AS VIEWED BY TIROS ARA-T-9219-4	ATES SURFAC	19537	HN-76158 CREEP AND STRESS ANALYSIS OF TURE	N63-14051	09-
RELATIONSHIP BETWEEN VEGETATION A	ND TERRAIN		AT HIGH TEMPERATURE IN STEEL TEST		11-3
SURFACE SHAPING FACTORS AND GEOMO SHAPES JPRS-20888			MAXIMUM MODEL SIZE FOR TEST CHAMB	and and the said	
ERRAIN ANALYSIS	TOAD / YMD (Z	30 2 30/11	ASD-TDR-63-230	N63-18106	16-1
CAPABILITIES FOR EVALUATING ENVIR ON MILITARY OPERATIONS - TERRAIN	ANALYSIS AN	ND .	NIMBUS SATELLITE - VACUUM CHAMBER POWER TELEMETRY, ALTITUDE CALCULA	TION, TELEM	
F15485 18 (2777 (3527 1237 1247 14)	N63-20450	10000	LOGIC AND S-BAND TRANSMITTER, GRI	N63-18620	17-1
TERRAIN INDUCED BEARING ERRORS IN	VHF DIRECT	ION	TEST CHAMBER FOR STUDYING AIRBORN	E MATERIALS	
RAE-TRANS-1042	N63-23000	23-08	TOXICITY AND AEROSOL RESEARCH	N63-19523	
FRESTRIAL MAGNETISM OF GEODESY	M4-2105-		TEST EQUIPMENT	A THE STATE OF	TYS
E CEMMACHETISM	DHIEG EUT JAH	CMHAL	CLOSED LOOP HEAT TRANSFER APPARAT	US FOR TEST	ING
TERRESTRIAL AND CELESTIAL REFEREN NASA-CR-50832	CE SYSTEMS N63-19960	19-29	MONOPROPELLANTS PA-TH-1119	N63-12425	06-
ORIGIN OF TERRESTRIAL MAGNETISM -			STANDARDIZATION OF ENVIRONMENTAL		S FOI
CONSIDERED IN HIGH PRESSURE PHASE RESULTING IN FERROMAGNETISM	OF IRON		AEROSPACE AND GROUND EQUIPMENT	N63-16752	14-1
MRL-131	N63-21809	22-12	VACUUM TECHNIQUE FOR ATTACHING A	TEST ELVTIN	E TO
PATTERN OF DISTRIBUTION AND CHANG IN TERRESTRIAL MAGNETISM			A VIBRATION EXCITER DIMARY & 311	N63-16765	14-1
JPRS-21493 TERRESTRIAL MAGNETISM REPORT - GE	LARGE COMES	24-12	LABORATORY, TEST RIG, STATIONARY FLIGHT ENGINE TEST METHODS FOR EVENGINE LUBRICANTS		
BIOPHYSICS AND NUCLEAR PHYSICS			TON BURNOUS AND WYLESS - TRADESS NAVE	STATE STATES	91
The state of the s	N63-23539	24-01	HARDNESS TESTING AT HIGH TEMPERAT	URES - EQUI	PHENT
RATER HISSILE	S 40 30KYO1		TO MEASURE HARDNESS OF ALLOYS ORNL-3448	N63-19208	18-
HIGH SPEED WIND TUNNEL TEST OF TA	TRANSONIC	FLOW	FLEXIBLE AND PREFABRICATED PAVENE CAPABILITIES	OF THE PARTY	20-
	300,3300,340	1732 125	#1-91 vs delicitation	103-50435	200
IGNITION SYSTEM FOR TERRIER MISSI PROPELLANT ROCKET ENGINE	LE SOLID	NA 1 - 1	NUCLEAR HEAPONS EFFECT RESEARCH	N63-20455	20-

04-13

5-12

31⁻³¹

-33 S

10

10

13

0

7

.

A THE RESIDENCE OF THE PROPERTY OF THE PROPERT
TEST METHOD FOR MEASURING CORROSION BY ELECTRICAL CONDUCTANCE N63-13239 07-15
STRESS ANALYSIS OF SANDBIECH PLATES AND SHELLS — ATTACHMENTS, DESIGN APPLICATION, FABRICATION, MECHANICAL PROPERTIES, TESTING — BIBLIOGRAPHY SM-42883 N63-13669 08-33
FATIGUE TESTING - METHODS, MACHINES, APPARATUS, AND ANALYSIS OF RESULTS N63-15239 11-33
STABILIZED RED PHOSPHORUS - METHODS FOR DETERMINING COPPER, IRON, ALUMINUM, YELLOW PHOSPHORUS PRESENT IN RED PHOSPHORUS T63-8-1 N63-15529 12-07
SHOCK AND VIBRATION ENVIRONMENT TESTS - OPTIMIZATION OF PROCEDURE N63-16757 14-17
SHOCK TEST METHODS 463-16769 14-10
INERTIAL GUIDANCE SYSTEMS - ACCELEROMETERS AND GYROSCOPES - TEST METHODS N63-16854 14-01
INERTIAL GUIDANCE SYSTEMS - TEST HETHODS
N63-16861 14-22 INERTIAL GUIDANCE SYSTEMS - CENTRIFUGE AND ROCKET
SLED TEST METHOD N63-16865 14-22
SYSTEM FOR NUCLEAR AUXILIARY POWER SHIELD TEST EXPERIMENT REACTOR
NAA-SR-7368 N63-16939 14-06
TEST METHODS FOR ENVIRONMENTAL TESTING OF GROUND AND AEROSPACE EQUIPMENT
MIL-STD-810 /USAF/ N63-16945 14-10
TESTS TO DETERMINE MECHANICAL PROPERTIES OF
PLASTICS AID-62-77 N63-17012 15-19
EXPERIMENTAL METHODS FOR MEASURING AEROELASTICITY AND FLUTTER N63-17015 16-33
AEROELASTICITY - METHODS OF MEASURING STRUCTURAL INFLUENCE COEFFICIENTS N63-17817 16-33
AEROELASTICITY - GROUND RESONANCE TEST METHODS FOR DETERMINING NATURAL VIBRATION MODES OF AIRCRAFT
STRUCTURES 904 107 107 107 107 107 107 107 107 107 107
AERDELASTICITY - IMERTIA AND STRUCTURAL DAMPING TEST METHODS AND MEASUREMENT OF GENERALIZED MASSES MAS-17819 16-33
AEROELASTICITY - WIND TUNNEL TEST METHODS FOR MEASURING OSCILLATORY DERIVATIVES OF AIRCRAFT MODELS - STABILITY AND FLUTTER
N63-17820 16-33
AEROELASTICITY - SIMILARITY REQUIREMENTS FOR SCALE MODEL FLUTTER TESTS N63-17821 16-33
AEROELASTICITY - WIND TUNNEL TEST METHODS FOR SCALE MODEL FLUTTER N63-17823 16-33
with properly builty from Computer Lies, Transpare ANTA-1081 32
AEROELASTICITY - FLUTTER TEST METHODS FOR AIRCRAFT IN FLIGHT NO3-17025 10-33
METAL PARTICLE CONTENT IN LUBRICATING DIL - METHODS OF ANALYSIS KN-676-1/PR/ N63-18423 17-06
FIELD TEST FOR ASSESSMENT OF PHYSICAL FITNESS
ANTENNA-HODELING TECHNIQUES FOR INTERFERENCE
MEASUREMENTS - SCALE MODEL TESTING METHOD RADG-TOR-62-281 N63-20015 19-08
TEST PILOT COMPARISON OF CARDIORESPIRATORY RESPONSES OF TEST PILOTS TO MON-FLYERS DURING DIFFERENT PROFILES
OF ACCELERATION - G-FORCE EFFECT AMPL-TOR-62-151 N63-18559 17-16

TEST PROGRAM TEST PROGRAM AND PERFORMANCE CHARACTERISTICS FO SUPERSONIC WIND TUNNEL HSA-81 N63-18062 16	N63-15160 11-07
NIMBUS PROJECT - INTEGRATION AND TEST PROGRAM - MANAGEMENT PLANNING - CONTRACTOR RESPONSIBILITY N63-18607 17	THERMAL DECOMPOSITION OF LINEAR PERFLUDROALKAMES - PERFLUDROPROPANE, PERFLUDROETHANE AND CARBON TETRAFLUDRIDE
NIMBUS SATELLITE - INTEGRATION AND TEST PROGRAM PLAN N63-18622 17	FLUOROCARBON NITROGEN-FLUORIDE COMPOUNDS FROM 1-30 BROMINE CYANIDE AND SODIUM CYANIDE REACTIONS
LIFE SUPPORT SYSTEM - TEST PROGRAM N63-19750 19	AROD-007-16 N63-19977 19-07
	INTERACTION AND ABSORPTION PARAMETERS FOR HEAVY COSMIC RAY NUCLEI IN HYDROGENOUS ABSORBERS — POLYETHYLENE AND TETRAFLUDROETHYLENE
TEST RANGE ROCKET RANGE WITH LAUNCHER AND DOPPLER RADAR FO MIKE-CAJUN RESEARCH ROCKETS NSRC-2 NSRC-2 N63-20787 21	N63-21376 22-28 OR TETRAHYDRIDE LOW-PRESSURE ENVIRONMENT REACTION OF HYDRAZINE AND NITROGEN TETROXIDE N63-23609 24-16
TEST REACTOR S PLUTONIUM RECYCLE TEST REACTOR /PRTR/ SYSTEM CF THERMONUCLEAR REACTOR	TETRAXETHYLANMONIUM BROMIDE CF BROMIDE SYNTHESIS OF CARBON-14-TETRAMETHYLANMONIUM BROMIDE
TEST STAND SHROUDED PROPELLER TESTING STAND N63-20127 20	PA-TM-1167 N63-15519 12-07 TETRAPHENYL D-03 THERMOCHEMISTRY - COMBUSTION HEATS OF
SHROUDED PROPELLER TESTING STAND N63-20128 20	TETRAPHENYL-TIN AND TETRAETHYL-GERMANIUM N63-19308 18-07
TEST VEHICLE STRUCTURAL TESTS OF UTILITY VAN FOR SECOND-STAG MINUTEMAN ENGINE	CHEMICAL ANALYSIS OF BILIRUBIN & OTHER TETRA-
BSD-TDR-62-330 N63-12452 06	/BILIRUBIN/ AND THEIR ESTERS N63-16531 14-07
FLIGHT EVALUATION OF LUNAR LANDING TRAJECTORIES USING JET VTOL TEST VEHICLE MASA-TN-D-1649 N63-12593 06	INTERMOLECULAR ELECTRON TRANSFER IN TETRAPYRROLE
AEROELASTIC DIVERGENCE OF SLENDER MULTISTAGE TE VEHICLES HSA-93 N63-13059 07	TETROXIDE -30 HEATS AND FREE ENERGIES OF FORKATION OF ANTIMONY
FLUID AMPLIFIER DEMONSTRATION VEHICLE N63-13383 08	BM-RI-5972 N63-17889 16-07
GROUND EFFECT MACHINES MAN-CARRYING TEST VEHICL UTILIZING RECIRCULATING EJECTORS FOR LIFTING SYSTEM - DESIGN, CONSTRUCTION & COMPONENT TESTI N63-14185 09	AT AUSTIN, TEXAS & TIME PHASE RELATION FOR NARROW NG BAND FREQUENCIES N63-12905 07-12
N63-14185 09 RECIRCULATING GROUND EFFECT MACHINE - MAN-CARRY TEST VEHICLE /MCTV/	ING CF CELLULOSE CF NYLON
TRECOM-TR-63-27 N63-20649 20	0-10 CF SYNTHETIC FIBER
HIGH POWER BEAM PLASMA AMPLIFIER - TESTING AND LARGE SIGNAL ANALYSIS N63-23409 24	
SMOKE-TRAIL VEHICLE DEVELOPMENT FOR WIND SHEAR MEASUREMENTS NASA-TN-D-2009 N63-23681 24	
TESTER CF INDICATOR	THALLIUM AT HIGH PRESSURE AND PHASE TRANSFORMATION
THAT DATE OF BOTH OF THE PARTY WANT - THE PARTY PARTY.	TORFRADRICKE OF MAIL TRUCKEY COMPONIST, IN PLACE
TETHERLINE LONG TETHERLINES FOR ORBITAL DOCKING OR RECOVER OF ASTRONAUT OPERATING IN SPACE	THALLIUM/ AT HIGH PRESSURES N63-19292 18-07
AMRL-TDR-62-123 N63-11708 04 MOTION CHARACTERISTICS OF TETHERED WEIGHTLESS	GROWING SODIUM IODIDE-THALLIUM ACTIVATED SCINTILLATION SINGLE CRYSTALS
OPERATORS AMRL-MEMO-P-3 N63-19092 18	AEET-TP-3 N63-23148 24-23
TETRACHLORIDE ACUTE CARBON TETRACHLORIDE HEPATOTOXICITY N63-15846 13	MOVIE-THEODOLITE MEASUREMENT OF PARACHUTE TRAJECTORIES
	00.01 - 2008 1 - 2008
HIGH PURITY REFINING OF SILICON TETRACHLORIDE A TRICHLOROSILANE BY RECTIFICATION METHOD JPRS-20944 N63-20902 21	5YSTEMS N63-12371 06-22
TETRAFLUORIDE OXYGEN FLUORIDE REACTIONS - DIOXYGEN DIFLUORIDE	ACCURACY OF MANUAL OPTICAL THEODOLITE SIGHTING OF

RK

1-07

ES -

9-07

-28

AND

IDE -07

-07

-07

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07

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N

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9

7

3

PRISM ATTACHMENT TO THEODOLITE TELESCOPE FOR	S MOLECULAR THEOR S MOMENTUM THEOR
AINING AT CENTER OF SOLAR DISK	S HUNERIUM INCOM
FTD-TT-62-1090/162 N63-23725 24-05	S PARTICLE THEORY S PERTURBATION 1
S BERNOULLI THEOREM	S PLASMA THEORY S PROBABILITY THE S QUANTUM THEORY S RELATIVITY THE S RELIABILITY TO
S BINOMIAL THEOREM	S PROBABILITY TO
S GAUSS-MARKOV THEOREM	S RELATIVITY THE
S KONIG THEOREM	S RELIABILITY TH
s LAGALLY THEOREM	S SET THEORY
S LIDUVILLE THEOREM S MORSE THEOREM, ETC	S SPECTRAL THEOR
	S THUERING THEOR
S TAUBERIAN THEOREM	S TRANSPORT THE
S RECIPROCAL THEOREM S TAUBERIAN THEOREM S TAYLOR THEOREM S TOC THEOREM	S WIGHTMAN THEO
S TPC THEOREM S UNIQUENESS THEOREM	THERAPY
S UNIQUENESS THEOREM	THERAPY SA CHEMOTHERAPY
S UNIQUENESS THEOREM S WIENER-SPENCER THEOREM THEOREM PROVING TRANSLATION INVARIANT SURSPACES OF FINITE	CHANGES IN PERI
THEOREM PROVING	THERAPY
TRANSCAL TO THE TOTAL THE TOTAL TO THE TOTAL THE TOTAL TO THE TOTAL TH	DISEASES WHICH
DIFFERENTIAL EQUATION	DISEASES WHICH THERAPY - SPACE
DIMENSION — THEOREM PROVED USING LINEAR DIFFERENTIAL EQUATION MRC-401 N63-19319 18-20	ro-70"11 ENDAY-EAR
THEORETICAL CHEMISTRY	
THEORETICAL CHEMISTRY CHEMISTRY PROGRAM REVIEW - SPACE CHEMISTRY,	PROTECTIVE & TI
	JPRS-20520
N63-14229 09-07	EFFECTIVENESS (
THEORETICAL PHYSICS	CERTAIN DCCUPAT
NUCLEAR PHYSICS - GAMMA RADIATION, NEUTRON POLARIZATION, LIGHT NUCLEI ANL-6603 N63-10407 01-23	JPRS-21712
ANL-6603 N63-10407 01-23	THERMAL ACCOMMODAT
ZSRPIRASIONES.	QUANTUH-RECHAN
USES OF GEOMETRY IN THEORETICAL PHYSICS AND	COEFFICIENT FOR
MATHEMATICAL ENGINEERING - GEOMETRY AS INTER- DISCIPLINARY LANGUAGE	ASES-62-17
AFCRL-63-18 N63-14499 10-23	THERMAL ADDITION
ATOMIC ENERGY RELEASED BY CONTROLLED FUSION	BICYCLOHEPTADI
REACTION - PLASMA, SOLID STATE & THEORETICAL PHYSICS	AFCRL-62-860
NUP-63-3 N63-16284 13-23	ACTION OF A
PROTEIN TOWNSHIP TO MATTAKEN TENNAN TOWNSHIP ROTEINS TO	THERMAL ANALYSIS
PHYSICS RESEARCH - THEORETICAL REACTOR.	APPLICATION OF
EXPERIMENTAL NUCLEAR & CRITICAL MASS PHYSICS HM-77311 N63-19506 19-23	MATERIALS
CHARGO PRISTICE OF CESTUM THERMIDMIC CONTENTS	HAPD-TH-350
NUCLEAR AND THEORETICAL PHYSICS, NEUTRON INELASTIC	
SCATTERING IN LIQUIDS, SOLIDS AND ELECTRONIC	THERMAL ANALYS
DEVICES N63-20280 20-23	ELASTOHYDRODYN
	CS-TS-COTENI-ENK
THEORY OF ATOMIC & MOLECULAR STRUCTURE	THERMOGRAVIMET
N63-21738 22-23	OF POTASSIUM PI
NUCLEAR AND THEORETICAL PHYSICS RESEARCH	PA-TR-3046
ANI-6767 N63-23162 24-23	OXIDATION KINE
ANL-6767 N63-23162 24-23	THERMAL ANALYS
	ST PROTOCHERS CAL
S BESSEL-BREDICHIN THEORY	MEASUREMENT OF
S BESSEL-BREDICHIN THEORY S BUHR THEORY S BOHR THEORY S BORN-MAYER THEORY S BRODE THEORY	ABSORPTION IN A
S BORN-HAYER THEORY	BAW-2168
5 BRODE THEORY	
S CUMPUNICATION THEORY	PHILOSOPHY USE
S CONVOLUTION THEORY S CRITICAL INCLINATION THEORY S DISTURBANCE THEORY S FIELD THEORY	TESTS OF UNMAN
S CRITICAL INCLINATION THEORY	MASA-1N-U-1146
S FIELD THEORY AND MARE OF SOTORED RANDE MORR	K-10 PROGRAM -
S FLOW THEORY	MECHANICAL AND
5 FOSTER THEORY	ANABRE HEREARA
S GAME THEORY S GRAVITATION THEORY S HANSEN LUMAR THEORY	THERMOVACUUM T
S HANSEN LUNAR THEORY	PERFORMANCE IN
3 HEISENBERG THEORY	JUN AGO
S HILL LUNAR THEORY	AUTOMATIC DIFF
- HOUNE THEORY	WITH UNIFORM H
S INFORMATION THEORY S KARNAN THEORY	THERMAL BUCKLING
S KARMAN THEORY A ZZANIZ A THEMADREWAS BADE CHA	SUPERSONIC EFF
5 KINETIC THEORY	ON FLUTTER OF
S LANCHESTER COMBAT THEORY	HASA-TH-D-1485
S MANY-PARTICLE THEORY S NEASURE THEORY	THERMAL BUCKLE
THE PARTY OF THE LIE WAY TO SEE THE PARTY OF	The state of the s

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THEORY THERMAL DECOMPOSITION VOLCETOES OF THE SHARE OF COUNTY VOLCETOES OF THE SHARE OF COUNTY VOLCETOES OF THE SHARE OF THE PHERAL BLOOD DURING RADIATION N63-12394 06-16 RESPOND WELL TO HIGH ALTITUDE E AND AVIATION MEDICINE N63-18956 18-16 HERAPEUTIVE ACTION OF SYNERGISTIC NE OF RADIATION SICKNESS IN ANIMALS N63-20435 20-16 OF ELECTRIC SLEEP TREATMENT IN N63-23492 24-16 TION COEFFICIENT ICAL THEORY OF THERMAL ACCOMMODATION R DIATOMIC GAS 9543 24A129 40 HOTTARAS 19-11 UTRAVIOLET SPECTRA OF KETOMES FROM ENE AND METAL CARBONYLS — AND THERMAL ADDITION REACTIONS N63-15315 12-07 ME, PERF UGROETHAN ANALYTIC PROCEDURE OF THERMAL HE HIGHLY RADIOACTIVE IRRADIATED N63-14021 09-23 IS AND PRESSURE MEASUREMENT IN AMIC LUBRICATION N63-14815 11-13 IC & DIFFERENTIAL THERMAL ANALYSIS RCHLORATE N63-15622 12-07 TICS OF URANIUM DIDXIDE IN AIR -RATIO OF EPICADMIUM TO SUBCADMIUM RANIUM OXIDE LATTICES - THERMAL OD PHEND RESIDE N63-17445 15-23 D FOR CONDUCTING THERMAL-VACUUM N63-10656 17-32 THERMOVACUUM TESTS OF ELECTRO-ELECTRONIC COMPONENTS N63-19268 18-09 EST RESULTS - PYROTECHNIC COMPONENT K-10 PROGRAM N63-19269 18-09 RENTTAL THERMAL ANALYSIS SYSTEM ATING RATE ... N63-22421 23-13 ECTS OF THERMAL STRESS AND BUCKLING FLAT PANELS H63-10209 01-33 THERMAL BUCKLING OF CYLINDERS

N63-10827 02-33	TITANIUM, ZIRCONIUM OXIDE, AND ALUMINUM OXIDE ASD-TDR-62-24 N63-13636 08-13
THERMAL BUCKLING OF ANNULAR PLATES SUDAER-143 N63-13474 08-13	COMPONENT VERTICAL TRANSFER IN CONSTANT GRADIENT ATMOSPHERE WITH THERMAL DIFFUSION
THERMAL CONVECTION	GCA-TR-62-4-G N63-15444 12-12
MEASUREMENTS OF HEAT CONVECTION AND ATMOSPHERIC	THERMAL DISSOCIATION PHOTOLYTIC AND THERMAL DISSOCIATION CHEMISTRY OF
FFH-57 N63-22248 23-04	NITROGEN-FLUORINE COMPOUNDS
SOLUTION OF BASIC PROBLEM CONCERNING FREE THERMAL CONVECTION OF LIQUIDS	EXP-223/3 N63-14485 10-07 THERMAL EMISSION
FTD-TT-62-1613/1 N63-23638 24-13	RADIATION AND IONIZATION PROBLEMS IN REENTRY N63-10237 01-28
THERMAL DECOMPOSITION	LUNAR THERMAL EMISSION MEASUREMENTS - RADIO
KINETICS OF THERMAL DECOMPOSITION OF GASEOUS CHLORINE HEPTOXIDE TIL/T-5314 N63-12599 06-07	ASTRONOMY AFCRL-62-882 N63-10296 01-05
VASWIDAW A	WATER CHIEF THEOREM
THERMAL DECOMPOSITION OF URANIUM MONOCARBIDE BY VAPOR PRESSURE TEST PHAC-378 N63-13092 07-07	EXPERIMENTAL EFFECT OF GAS FLOW TRANSIENTS ON HEAT EMISSION OF BURNING LIQUID DROPS IN A ROCKET COMBUSTOR
PHAC-376 HOS-13092 07-07	NASA-TN-0-1576 N63-13951 09-26
LABORATORY SCALE MODEL FLUIDIZED-BED REACTOR FOR THERMAL DECOMPOSITION OF GYPSUM	OPTICAL AND THERMAL METHODS OF MEASURING SOLAR
BM-RI-6209 N63-14045 09-07	ABSORPTANCE AND THERMAL EMITTANCE - THERMAL VACUUM TECHNIQUE TESTED FOR SPACECRAFT COATINGS
FIBROUS SILICON CARBIDE SYNTHESIS BY THERMAL DECOMPOSITION OF SILICATE AND SILICON COMPOUNDS	NASA-TN-D-1716 N63-14277 10-13
BMRI-6220 N63-14745 11-19	THERMAL EMISSION SOURCE AND MASS SPECTROMETER - UTILIZATION FOR MEASUREMENT OF URANIUM ISOTOPE
THERMAL DECOMPOSITION OF ORGANIC COOLANTS - POLYPHENYLS	ABUNDANCES AND REACTOR FUEL BURNUP PMAC-393 N63-16167 13-01
100-16851 N63-15542 12-07	
KINETICS OF THERMAL DECOMPOSITION OF GASEOUS TRIETHYLALUMINUM N63-15822 13-07	TANTALUM SPECIFIC HEAT-EMISSIVITY RATIO AT HIGH TEMPERATURES ASD-TDR-63-371 N63-20118 20-2
1/ 77	
PREPARATION OF METALS FROM ORGANOMETALLIC COMPOUNDS - THERMAL DECOMPOSITION - LITERATURE SURVEY	THERMAL ENERGY THERMAL ENERGY STORAGE FOR THERMIONIC CONVERSION ARS PAPER-2505-62 N63-10256 01-01
AFCRL-63-22/X N63-16976 14-07	MALESON BY A PRINCIPLE OF THE ACTUAL VALUE OF STREET
THERMAL DECOMPOSITION OF LINEAR PERFLUOROALKANES - PERFLUOROPROPANE, PERFLUOROETHANE AND CARBON	THERMAL ENERGY TRANSPORT CODE-TET DTMB-1613 N63-12637 06-20
TETRAFLUORIDE NASA-TN-D-1744 N63-18233 17-07	METHOD FOR DIRECT TRANSFORMATION OF THERMAL ENERGY INTO ELECTRICAL ENERGY
THERMAL DECOMPOSITION OF WOOD IN INERT ATMOSPHERE	FTD-TT-62-759/16264 N63-12752 06-09
N63-18515 17-07	CHARACTERISTICS OF CESIUM THERMIONIC CONVERTERS N63-14142 09-0
CRYSTALLOGRAPHY - THERMAL DECOMPOSITION OF EXPLOSIVE CRYSTALS - EFFECT OF FISSION FRAGMENTS - INITIATION AND GROWTH OF EXPLOSION	RADIOISOTOPE FUELED THERMOELECTRIC GENERATORS N63-14143 09-0
N63-18551 17-25	FFFFCT OF ACACTOR TEMPERATURE ON CRITICALITY
IMPROVED TENSILE PROPERTIES OF DISPERSION— STRENGTHENED NICKEL ALLOYS PREPARED BY THERMAL DECOMPOSITION OF THORIUM NITRATE	EFFECT OF REACTOR TEMPERATURE ON CRITICALITY FACTOR - CROSS SECTION AND FLUX DISTRIBUTION AT THERMAL ENERGY LEVELS RM-3089-PR N63-17486 16-2
N63-23630 24-18	
REACTION OF FREE RADICAL PRODUCED BY PHOTOCHEMICAL DECOMPOSITION OF MOLECULE COMPARED TO SAME RADICAL	THERMAL ENERGY STORAGE MATERIALS ASD-TR-61-187, PT. II N63-17682 16-1
PRODUCED THERMALLY AFCRL-63-849 N63-23750 24-07	POWER TRANSMISSION BY THERMAL RADIANT ENERGY EOS-3000-FINAL N63-19747 19-1
	YACTORY MAYAR STORE OF
THERMAL DIFFUSION CF HEAT TRANSFER	THERMAL ENERGY EFFECTS ON ANTERIOR OCULAR TISSUES OF RABBITS
X-RAY IMAGE OF FERMI SURFACE IN LEAD	AMRL-TDR-63-53 N63-19846 19-1
MRL-124 N63-10281 01-23	REFLECTOR PIPE FOR TRANSMITTING THERMAL ENERGY FROM SOLAR COLLECTOR TO SPACECRAFT WITHOUT
THERMAL DIFFUSIVITY MEASUREMENTS ON A FINITE DISK, TEMPERATURE DISTRIBUTION, REENTRY PHYSICS, ENERGY CONVERSION	INTERMEDIATE CARNOT CYCLE LIMITED DEVICE EOS-3000-Q-3 N63-20970 21-0
15-492 N63-10708 02-13	CERAMIC OXIDE COMPOSITIONS FOR THERMAL ENERGY STORAGE - CORROSION, MATERIALS TESTING AND THERMAL
FORTRAN PROGRAM FOR DETERMINING THERMAL DIFFUSIVITY OF FINITE LENGTH SAMPLES	CONDUCTANCE MASA-CR-51523 N63-21845 22-1
15-507 N63-11813 04-20	Y 50 S H T - 1 S J S J H T - 1 S J S J H T - 1 S J S J H T
THERMAL DIFFUSIVITY AND HEAT CAPACITY AT LOW TEMPERATURES OF ALUMINUM ALLOYS AND MAGNESIUM	THERMAL ENVIRONMENT STRUCTURAL DESIGN PROBLEMS IN A COMBINED THERMAL AND LOAD ENVIRONMENT - STRESS AND DEFLECTIONS
OXIDE BY FLASH METHOD USWRDL-TR-599 N63-12490 06-18	N63-11077 03-3
	COMPARISON OF SELF-ADJOINT VARIATIONAL METHOD TO
MEASUREMENT OF THERMAL DIFFUSIVITY OF MATERIALS AT HIGH TEMPERATURES - CERAMICS, IRON, MOLYBDENUM,	36-GROUP THERMAL SPECTRUM CALCULATIONS OF HETEROGENEOUS SYSTEMS N63-11942 04-2

PHYSICAL AND CHEMICAL PRINCIPLES AFFECTING HIGH TEMPERATURE MATERIALS FOR ROCKET NOZZLES -GXIDATION, CORROSION, THERMAL EXPANSION

08-13 ENT 12-12 OF 10-07

01-28

01~05
HEAT
09-26
R
ACUUM
10-15
E
13~07
GH
20-25

ION 01-06

06-20 NERGY 06-09 RS 09-06

O9-06
AT
16-23
16-13
19-13
SUES
19-16
ERMAL
22-19
MAL
03-34

TO

04-23

	THE RESIDENCE OF THE PARTY OF T
CATECHOLAMINE EXCRETION IN HEAT-ACCLIMATIZED MEN SAM-TOR-63-20 N63-15847 13-16	**************************************
MATERIAL BEHAVIOR IN RANDOM STRESS- TEMPERATURE-TIME ENVIRONMENT N63-16054 13-18	THERMAL EXPANSION AND ATOMIC VIBRATION AMPLITUDES FOR TITANIUM CARBIDE, TITANIUM MITRIDE, ZIRCONIUM CARBIDE, ZIRCONIUM NITRIDE, AND PURE TUNGSTEN C-17 N63-19922 19-16
DEVELOPMENT OF MATERIAL FOR THERMAL ENVIRONMENT N63-16063 13-17	1428-1M-0-1889 1-17-22
HEAT PROTECTIVE MATERIALS - THERMAL RESPONSE OF	INFLUENCE OF CARBON CONTENT ON THERMAL EXPANSION OF ARC-CAST URAN TUN MONOCARBIDE NAA-SR-8538 M65-22662 23-13
ABLATORS TO HYPERTHERMAL ENVIRONMENT R635020 N63-16184 13-13	DENSITY OF URANIUM DIOXIDE AT GEVEN HEAT & CHANGE IN VOLUME ON MELTING MEASURED BY MIGH TEMPERATURE
THERMAL ENVIRONMENT CHAMBER FOR TRANSIENT RESPONSE TEMPERATURE CONTROL - RESPONSE OF HUMAN BODY TO	RADIOGRAPHY HN-75148 N63-22964 23-19
EXTREME TEMPERATURE ENVIRONMENT AMRL-TOR-63-15	THERMAL ENSTABLITY HOLD SERVICE CARREST CONTRACT AND STATES
PRESSURE PULSES, SHOCK AND VIBRATORY LOADING ON LAUNCH VEHICLE CONNECTORS - HEAT ENVIRONMENT, VACUUM AND RADIATION EFFECTS ON CONNECTOR GASKETS NASA-CR-50562 N63-18323 17-17	SILICON POWER TRANSISTOR THERMAL IMSTABILITY - HOT SPOTS & RESISTANCE SUPPRESSION RADC-TDR-63-350 H63-22821 23-09 THERMAL INSULATION
NIMBUS SATELLITE - THERMAL ENVIRONMENT CONTROL AND THERMAL DESIGN N63-12612 17-30	CF ASBESTOS CF HEAT SHIELD THERMAL PROTECTION AND STRUCTURES FOR REENTRY
THERMAL-VACUUM ENVIRONMENTAL TESTING OF SATELLITES N63-18846 18-32	THERMAL INSULATION IMPROVEMENT DUE TO AIR FLOW
HYPERTHERMAL RESEARCH FACILITY FOR NOZZLE ABLATION TESTING AND SINULATION OF REENTRY THERMAL	THROUGH MATERIAL - AIR-VENTILATED SUIT FPRC/1202 N63-11811 04-13
ENVIRONMENT NASA-CR-50441	TEMPERATURE TRANSDUCER FOR IN-FLIGHT MONITORING OF SKIN PANEL SURFACE TEMPERATURES - EFFECTS OF
STRATOSPHERIC WIND CIRCULATION & THERMAL STRUCTURE ERDA-62 N63-20468 20-12	INSULATION AND VISRATION ON ACCURACY ATL-0-811 N63-12288 05-15
THERMAL ENVIRONMENT IN THE UPPER ATMOSPHERE	CURING INSULATION ADHESIVES FOR SATURN S-II ROCKET SDL-324 AMS N63-12427 06-33
N63-20002 21-12 THERMAL ENVIRONMENTS IN THE LOWER ATMOSPHERE N63-20003 21-12	TEMPERATURE DISTRIBUTION AND HEAT TRANSFER IN INSULATION OF COMPRESSED-GAS TANKS FTD-TT-62-1459/16284 M63-12754 M6-13
ERMAL EXPANSION CHRYCYC HOTYDRYDDA TANH ANTTAGAA	LOW DENSITY THERMAL INSULATION MATERIALS FOR USE ABOVE 3000-DEG F N63-13920 06-13
THERMAL EXPANSION OF CERAMIC OXIDES TO 2200-DEG C JPL-TR-32-297	FLEXIBLE POLYMERS FOR THERMAL INSULATION IN SOLID PROPELLANT ROCKET ENGINES N63-13377 12-27
THERMAL EXPANSION OF MAGNESIUM OXIDE 8M-RI-6115 N63-11936 03-18	PRACTICAL CRITERIA FOR THERMAL PROTECTION OF ROCKET NOZZLES - DETERMINATION OF APPROPRIATE
REASUREMENT OF THERMAL EXPANSION WITH DOUBLE CLAMSHELL ARC IMAGER AFCRL-62-952 N63-12766 06-06	MATERIALS FOR JACKET & CASING INSULATION NES-16651 12-13
THERMAL EXPANSION OF ALPHA-ZIRCONIUM SINGLE CRYSTALS - ANISOTROPIC STRUCTURE	ROCKET LINER PROGRAM - STANNOSILOXANE POLYMER MATERIAL FOR ROCKET MOTOR CASE INSULATION APPLICATION
N63-13065 07-18	ROC/LIN-70 101411100 2007 N63-15043/07 13-07
INTERFEROMETRIC MEASUREMENT OF THERMAL EXPANSION OF OXIDES OF YYTRIUM, CERIUM, SAMARIUM, EUROPIUM, AND DYSPROSIUM	FLEXIBLE POLYMERS AS THERNAL INSULATION IN SOLID PROPELLANT ROCKET ENGINE - PHENOL, EPOXY, AND FURAN RESINS No.3-15076 13-07
RADIATION EFFECT ON DIELECTRIC AND THERMAL	DEVELOPMENT OF FLEXIBLE POLYMERS AS THERMAL INSULATION IN SOLIO-PROPELLANT ROCKET ENGINES -
EXPANSION PROPERTIES OF HIGH POLYNERS TID-16273 N63-13378 08-23	STUDY OF EPOXY AND PHENOL RESINS
MATHEMATICAL ANALYSIS OF THERMAL STRESS, SHOCK AND EXPANSION OF THROAT SECTIONS OF SO-INCH HYPERSONIC WIND TUNNEL	HULTIPLE LAYER INSULATION - SANOWICH CONSTRUCTION No.3-16055 13-17
AEDC-TDR-62-231 HOLLS FROT CITCH HAS-13456 F 08-10	THERMAL PROTECTION WITH TEMPERATURE CAPABILITY TO
THERMOCONDUCTAVITY AND EXPANSION OF BARIUM-LEAD- CALCIUM AND ZIRCONIUM TITANATES AND DEVELOPMENT OF PROTOTYPE RADIAC CALIBRATOR FOR SHIPBOARD USE N63-14264 A 10-23	HIGH TEMPERATURE COMPOSITE STRUCTURAL CONFIGURATIONS - RADIATIVE THERMAL PROTECTION
THERMOCONDUCTIVITY AND EXPANSION OF BARTUM-LEAD- CALCIUM AND ZINCONTUN TITANATES	SYSTEMS FOR 2500 TO 4500-DEG F
N63-14266 10-18	THERMAL PERFORMANCE OF RIGID INSULATIONS AT AMERICAN CRYOGENIC TEMPERATURES
PHOTOELASTICITY AND MECHANICAL STRESS MEASUREMENTS OF ARALDITE-B	CRYOGENIC TECHNOLOGY - SUPER INSULATION FOR SPACE APPLICATIONS - PRODUCTION OF SOLID HYDROGEN FUEL
### TRANS-1022 MA NO TREGIENT NO NOS-14335 ME 10-33	APPLICATIONS - PRODUCTION OF SOLIO HYDROGEN FUEL NOS-17907 16-23

EFFECTS OF GAS IN MULTILAYER THERMAL INSULATION CONSIDERED FOR APPLICATIONS IN CRYGGENICS -

GASEOUS DIFFUSION AND OUTGASSING DATA NASA-TM-X-50156 N63-18417 17-13	THERMAL PROPERTY MATERIALS RESEARCH - MATERIAL SCIENCE, LIQUID AND SOLID MATERIALS, RADIATION EFFECT, TRANSPORT
INFLUENCE OF LOW HEATING RATE ON INSULATION EFFECTIVENESS OF THIN SECTIONS OF TYPICAL	PROPERTIES, ELECTRIC AND THEMMAL PROPERTIES ACR-61 N63-19211 18-23
COMPOSITE ABLATIVE MATERIALS NASA-TN-D-1889 N63-18466 17-23	PHYSICO-THERMAL PROPERTIES OF SODIUM, POTASSIUM, AND SODIUM-POTASSIUM ALLOYS FROM BOILING POINT TO
INSTRUMENTED COPPER MANIKIN FOR DETERMINATION OF THERMAL INSULATION PROPERTIES OF PROTECTIVE CLOTHING	1300-DEG C EUR-357-D (ARREST - 2001831A) N63-20062 20-18
NAEC-ACEL-491 1916 Th sure sign N63-19152 18-10	NONEQUILIBRIUM TURBULENT WAKE OF SHARP NOSED BODY & APPROXIMATE INTEGRAL SOLUTIONS FOR DISTRIBUTION
ABLATION-TYPE THERMAL INSULATING MATERIALS NOLTR-63-100 N63-19820 19-13	OF SPECIES AND THERMAL PROPERTIES OF WAKE BSD-TDR-63-138 R63-21700 22-11
REFLECTIVE UNFIRED CERAMIC THERMAL INSULATION FOR BASE OF SATURN LAUNCH VEHICLE BOOSTER STAGE NASA-TH-X-50242 N63-20215 20-19	EFFECT OF VARIABLE THERMAL PROPERTIES AND TEMPERATURE DISTRIBUTION ON ONE-DIMENSIONAL HEAT TRANSFER IN RADIATING FINS OF ELECTRIC MOTOR
MATRIX AND COMPOSITE MATERIALS OF ZIRCONIUM OXIDE, THORIUM OXIDE, AND MAGNESIUM OXIDE MITH TUNGSTEN - PROTECTIVE COATINGS FOR THERMAL INSULATION NASA-CR-50877 N63-20259 20-19	NASA-TN-D-1878 N63-22111 22-13 THERMAL PROTECTION CF HEAT SHIELD REENTRY DYNAMICS - SPACECRAFT, ATMOSPHERE, THERMAL PROTECTION, TRANSPORT PROPERTIES
MERMAL NEUTRON CF ELEMENTARY PARTICLE	N63-10230 01-01
CF FAST NEUTRON GAMMA RADIATION CURVES FOR STEEL, ALUMINUM AND URANTUM	THERMAL PROTECTION AND STRUCTURES FOR REENTRY VEHICLES N63-10238 01-34
EUR-103.F N63-10775 02-23	NEW AND IMPROVED THERMALLY PROTECTIVE FIBER REINFORCED COMPOSITE MATERIALS
THERMIDOR - A FORTRAN CODE TO EVALUATE THE THERMAL NEUTRON SPECTRUM IN AN ORGEL TYPE FUEL ELEMENT	N63-14518 10-19
PISSION DISTRIBUTION IN SEVEN-PIN CLUSTER FUEL	PRACTICAL CRITERIA FOR THERMAL PROTECTION OF ROCKET NOZZLES - DETERMINATION OF APPROPRIATE MATERIALS FOR JACKET & CASING INSULATION
ELEMENTS BY THERMAL NEUTRONS UCRL-6695 N63-13612 08-26	1919 STATE TANGE THE HI TARANGS-15651 48 12-13
TRANSMISSION OF THERMAL NEUTRON THROUGH CADMIUM COVERED FOILS	CONFERENCE ON AERODYNAMICALLY HEATED STRUCTURES - THERMAL PROTECTION AND STRUCTURAL ENGINEERING AD-282454 M63-16051 13-13
NAA-SR-7770 N63-14561 10-13	ABLATING HEAT PROTECTION SYSTEMS POISMANN JAMANG
IN-AIR RADIATION MEASUREMENTS IN VICINITY OF TOWER SHIELDING REACTOR II	N63-16052 TA:33-13
ORNL-3288 : N63-14663 : 10-23 THERMAL NEUTRON SCATTERING LAW AND HEAT EFFECTS	THERMAL PROTECTION WITH TEMPERATURE CAPABILITY TO 2500-DEG F FOR COOL STRUCTURES N63-16056 13-17
BNL-770/T-288/ 49	HIGH TEMPERATURE COMPOSITE STRUCTURAL
NEUTRON THERMALIZATION IN SOLIDS - NEUTRON SCATTER BY ATOMS WHOSE MOTIONS ARE RESTRICTED BY CRYSTAL BONDS - ENERGY TRANSFER APPROXIMATIONS	CONFIGURATIONS - RADIATIVE THERMAL PROTECTION SYSTEMS FOR 2500 TO 4500-DEG F N63-16058 13-34
LA-2834 11 9457 11-23	HEAT PROTECTIVE MATERIALS - THERMAL RESPONSE OF
THERMAL NEUTRON DIFFUSION LENGTH IN LIGHT WATER AT WARIOUS TEMPERATURES	ABLATORS TO HYPERTHERHAL ENVIRONMENT. R63SD20 N63-16184 13-13
GEAP-4018 N63-15497 12-23	THERMAL PROTECTION MATERIALS - REENTRY
LUMINESCENT DERIVATIVES OF BORAZOLE AND THEIR APPLICATION IN COUNTING THERMAL NEUTRONS	APPLICATIONS INVOLVING LONG MEAT PERIODS AND HIGH TOTAL HEAT LOADS NASA-TN-0-1814 N63-18659 17-19
N63-16038 13-07 MATHEMATICAL ANALYSIS OF THERMAL NEUTRON LEAKAGE	THERMAL PROTECTION BY ABLATING MATERIALS IN
IN HEXAGONAL LATTICE CRRP-1147 N63-17178 15-20	SIMULATED PLANETARY ATMOSPHERIC ENTRY R63SD35 N63-19020 18-13
THERMAL NEUTRON FLUX IN HEAVY GASEOUS MODERATORS EUR-292-1 18-23	INDUCTION ELECTRON ACCELERATOR WITH SUPERCONDUCTOR
CODE FOR COMPUTATION OF THERMAL NEUTRON SPECTRA	ABLATION-TYPE THERMAL PROTECTION OF OBJECTS
GA-4132 N63-21704 22-23	TRAVERSING AN ATMOSPHERE - EARTH AND MARS
HERMAL PLASMA DISPERSION AND DAMPING OF LONGITUDINAL ELECTRON OSCILLATIONS IN THERMAL PLASMA NASA-TN-D-1734 N63-16711 14-24	THERMAL RADIATION CF HEAT TRANSFER CF INFRARED RADIATION EFFECTS OF THERMAL ENERGY ON RETINAL FUNCTION AMEL-TOR-62-96 23424 11 Mills N63-10879 02-16
MEASUREMENT OF THE SHUTOWN OF THERMAL PONER	HEAT TRANSFER METHODS AND ANALYSIS
REACTORS BY PULSED NEUTRON SOURCES GEAP-4047	THERMAL RADIATION INCIDENT ON AN EARTH SATELLITE
THERMAL POWER ENGINEERING - THERMODYNAMICAL COEFFICIENTS AND HEAT REGIME OF BODIES WITH	NASA-TN-0-1524 N63-11121 03-28
INTERNAL ENERGY SOURCES FTD-TT-62-1200/16264 N63-12820 06-13	THERMAL RADIATIVE PROPERTIES OF SELECTED MATERIALS DMIC-177, VOL. 2 JAMES NO. 100 NG3-11916 NG-13

D AND

18-23 LUM, NT TO 20-18 800V UTION 22-11 HEAT 22-13

HERMAL

01-01

10-19 12-13 ES -

13-13 Y 70 13-17 13-34 OF

7-19

18-13 OCTOR 14-23

4-13

2-16 3-13 TE 3-28

FALS 4-13

ABSORPTION OF THERMAL RADIATION IN V-GROOVE CAVITY 05-23	145 PAPER-63-56 NOWAS CLAMBERY M63-18662 16-20
SHOCK-LAYER RADIATION OF BLUNT BODIES TRAVELING AT LUMBAR RETURN ENTRY VELOCITIES N63-12891 07-13	THERMAL STRESS CF MECHANICAL PROPERTY SUPERSONIC EFFECTS OF THERMAL STRESS AND BUCKLING ON FLUTTER OF FLAT PANELS NASA-TN-0-1485 N63-10205 01-33
TENON FLASHTUBE THERMAL PROPERTY DETERMINED BY ADDIATION MEASUREMENT USHRDL-TR-617 N63-14950 11-09	PHYSIOLOGY - THERMAL STRESS IN HUMAN BODY, SWEATING ANTL-TOR-62-131 N63-11922 04-16
HEAT DISSIPATION IN SPACE ENVIRONMENTAL CHAMBERS - RADIATION TRANSMISSION THROUGH SHIELDING FOR CRYOPUMPING SURFACES AEDC-TOR-63-75 N63-16530 16-08	THERMAL STRESS IN VISCOELASTIC SOLIDS N63-13291 07-33
AEDC-TDR-63-75 N63-16530 14-08 INTERACTION OF THERMAL RADIATION AND FLUID FLOW IN ACOUSTIC APPROXIMATION NASA-TR R-138 N63-17551 16-11	MATHEMATICAL ANALYSIS OF THERMAL STRESS, SHOCK AND EXPANSION OF THROAT SECTIONS OF SO-INCH HYPERSONIC WIND TUNNEL AEDC-TOR-62-231
LOWER ATMOSPHERIC THERMAL RADIATION MEASUREMENT AFCRL-63-496 N63-17574 16-21	CAUSE AND PREVENTION OF CRACKS IN HEAVY FORGINGS OF DEFORMABLE ALUMINUM ALLOYS - THERMAL STRESS AND
THERMAL RADIATION THEORY FOR FLAME PROPAGATION IN COAL DUST CLOUDS N63-18512 17-26	HIGH TEMPERATURE IN QUENCHING N63-13616 06-18
POWER TRANSMISSION BY THERMAL RADIANT ENERGY EOS-3000-FINAL N63-19747 19-13	THERMAL AND PRESSURE-INDUCED STRESSES IN THICK, BLUNT-NOSED SHELLS OF REVOLUTION OF ONE OR TWO LAYERS OF CONSTANT THICKNESS GASL-TR-284 N63-13701 08-33
THERMAL RADIATION FROM HOT GASES - SIMULATED ATMOSPHERES OF MARS AND VENUS ATAA PAPER-63-455 N63-20136 20-28	VAPOR PRESSURE EFFECTS ON PHYSIOLOGIC STRAIN AND BODY HEAT STORAGE - THERMAL STRESS AMRL-TOR-62-147 N63-13938 09-16
OUBLE COMPOUND THERMAL IMAGING SYSTEM FOR DEVELOPING HIGH TEMPERATURE ELECTRONIC MATERIALS C-63789 N63-20502 20-13	ELASTO-PLASTIC ANALYSIS OF STRUCTURES UNDER LOAD AND TWO-DIMENSIONAL TEMPERATURE DISTRIBUTIONS
THERMAL RADIATION OF AIR FROM STAGNATION REGION OF BLUNT BODIES AT HYPERSONIC SPEED	ASD-TR-61-667, VOL. 111 N63-14602 10-33
NASA-TH-X-508 NASA-20536 ZO-13 THERMAL RADIATION FROM ABLATING PLASTIC MATERIALS	THEAMAL STRESSES IN RECTANGULAR PLATES CAUSED BY SPANWISE TEMPERATURE GRADIENT ARL-63-4 N63-14716 10-33
INJECTED INTO HYPERSONIC SHOCK WAVES NASA-TH-D-1978 N63-20608 20-13	SURVEY OF AEROTHERMOELASTICITY - REENTRY VEHICLES, X-15 AIRCRAFT, STRUCTURAL DYNAMICS, THERMAL STRESS, VIBRATION AND PANEL FLUTTER
HANDBOOK OF THERMOPHYSICAL PROPERTIES OF SPACE- CRAFT NATERIALS - THERMAL RADIATION AND MAYERIALS STABILITY IN SPACECRAFT ENVIRONMENT	M63-14895 -11-02
PREDICTION OF EFFECT OF THERMAL RADIATION ON	BIOTHERMAL STRESS EFFECTS ON CELLULAR STRUCTURE AND FUNCTION - MOUSE KIDNEY CELLS AMRL-TDR-63-14 12-16
STRUCTURE OF SHOCK WAVES MASA-RP-24 N63-21930 21-11	MEASURING HUMAN PERFORMANCE UNDER TRANSIENT HEAT STRESS - NETHODS FOR PSYCHOMOTOR TESTING
THERMAL SPECTRAL RADIATION OF POLISHED & COATED METALS	AMRL-YDR-63-1 12-14
MADD-TR-60-370, PART 111 N63-22597 23-13 PLASMA AND MAGNETOHYDRODYNAMICS - ELECTROMAGNETIC	ELASTIC-PLASTIC RESPONSE TO HEAT PULSE FOR AN INFINITE PLATE OF FINITE THICKNESS - NONISOTHERNAL STRESS-STRAIN RELATIONS NO3-16343 14-23
RADIATION FROM DIPOLE IN ANISOTROPIC PLASMA, THERRAL RADIATION FROM FULLY IONIZED PLASMA USCEC-98-101 N63-23063 24-24	MEASUREMENT OF THERMAL STRESSES ARISING IN CUNTURES DURING REPETITIVE FIRING - PHOTOTHERMO-
MERMAL SHOCK	ELASTIC & ELECTRIC AMALOGY METHODS N63-16614 14-33
MATHEMATICAL AMALYSIS OF THERMAL STRESS, SHOCK AND EXPANSION OF THROAT SECTIONS OF 50-INCH HYPERSONIC WIND TUNNEL AEDC-TDR-62-231 N63-13456 D8-10	FABRICATION METHODS - THERMAL AND HYDROSTATIC TESTING OF STATNLESS STEEL - TITANIUM LIQUID HYDROGEN FUEL TANKS FOR ROCKET ENGINES
HAZARDS THAT MAY OCCUR BEFORE, DURING AND AFTER THE FLIGHT OF SNAP 10A NUCLEAR REACTOR - THERMAL SHOCK NAM-SR-8304 N63-18265 17-06	DEPOSITION TESTS SIMULATING THERMAL AND OXIDATION STRESSES IN JET ENGINES FOR DIL DEGRADATION AND DEPOSITS N83-17859 18-17
TENSILE, THERMAL SHOCK & HOT GAS EROSION TESTS OF TUNGSTEN-COATING COMBINATIONS AND CONSTRUCTION OF FURNACE FOR HIGH TEMPERATURE TESTS	ELASTIC STATE DETERMINATION OF THERMAL STRESS IN THIN, FLAT PLATE OF FINITE DIMENSIONS N63-19733 19-33
ASD-TOR-63-459 MERMAL SIMULATION MATERIALS THERMAL PROPERTIES AND ENVIRONMENTAL THERMAL SIMULATION SUPPORTING FACILITIES FOR MISSILES AND SPACE VEHICLES M63-10913 02-13	THERMAL STRESS STUDY OF CASE DONDED SOLID PROPELLANT GRAIMS EPC-578-F-1 NA3-2083D 21-24 THERMAL STRESS OF SOLID PROPELLANT GRAIMS UNDER
SPACECRAFT THERNAL SIMULATION TARABLE STRONG AND NASA-TN-D-1631 N63-14811 11-10	ACES-62-19A NG3-20831 21-26
DEEP SPACE ENVIRONMENT SIMULATION - THERMAL AND A VACUUM LEVEL SIMULATION	CALCULATION OF THERMAL STRESSES IN ROTATIONAL SYMMETRICAL THIN CYLINDRICAL SHELLS FTD-TT-63-726/162

ENERGY CONVERSION STUDY OF PHOTON THERMIONICS ASD-TOR-63-707 N63-23692 24-23

	LOSTROL GROCK
THERMALIZATION INTEGRAL NEUTRON THERMALIZATION - MUCLEAR PHYSICS, ACCELERATORS, AND SCATTERING	CESIUM THERMIONIC CONVERTERS AND GENERATORS FOR SOLAR SPACE POWER SYSTEMS ARS PAPER-2571-62 N63-10274 01-06
GA-3542 N63-17257 15-23 MEUTRON THERMALIZATION - TRANSPORT THEORY AND SPECTRA OF ZIRCONIUM HYDRIDE AND POLYETHYLENE	PARALLEL PLANE THERMIONIC CONVERTER TUBE WITH VARIABLE INTERELECTRODE GAP UCRL-7031 N63-10548 01-06
GA-3853 N63-18126 16-23 THERMALIZATION OF ACCELERATED ELECTRONS IN CESSUM PLASMA - EMERGY CONVERSION N63-18294 17-24	WORK FUNCTIONS AND LIFETIME OF DISPENSER CATHODE SYSTEMS AFCRL-1114 N63-11041 03-09
MONTE CARLO CALCULATION OF NEUTRON THERMALIZATION IN LIQUID HYDROGEN OF NUCLEAR ROCKET PROPELLANT TANK	CHARACTERISTICS OF CESSUM THERMIONIC CONVERTERS N63-14142 09-06
LA-2909 N63-21656 22-26 THEAMIONIC CATHODE	THERMIONIC GENERATOR UTILIZING SOLAR ENERGY APPLICABLE TO SPACE POWER SYSTEM ASD-TDR-62-899 N63-16064 13-06
SELECTION OF THERMIONIC CATHODES FOR REACTOR TESTS ARS PAPER-2550-62 N63-10269 01-06	SOLAR POWER SYSTEMS USING THERMIONIC CONVERSION RA-5038 NG3-16108 13-06
URANIUM AND ZIRCONIUM CARBIDE CATHODES FOR THERMIONIC SPACE REACTORS - VAPOR LOSS, DIFFUSION RATE AND THERMOCONDUCTIVITY GA-2670 N63-13785 08-06	MONOCAPILLARY EMITTER AS DUAL SOURCE OF IONS AND ELECTROMS EDR-2617
PRIMARY ELECTRON SOURCES - THERRICOLIC CATHODES AND KINETIC DEVICES SUCH AS THIM FILM INSULATORS	MATER-COOLED NUCLEAR POWERPLANT WITH THERMIONIC CONVERTERS
AND SUPERCONDUCTORS AFCRL-63-5 N63-14310 10-09	MND-2903 /VOL. 1/ N63-16362 14-27 SINGLE-CRYSTAL TUNGSTEN THERMIONIC CONVERTER
CLOSE-SPACED ANGOE AND CATHODE IN THERMIONIC CONVERTER ASD-TOR-62-687 N63-16308 13-09	AFCRL-63-452 N63-16736 14-06 PERFORMANCE CHARACTERISTICS AND EMISSION COOLING MEASUREMENTS TAKEN ON CESIUM THERMIONIC CONVENTER
STUDIES OF THERMIONIC CATHODES AND NONTHERMIONIC ELECTRON SOURCES - HOT ELECTRON EMISSION SUPERCONDUCTORS	MITH THORIUM-TUNGSTEN EMITTER N63-17002 15-15
SUPERCONDUCTORS AFCRL-63-59 ALKALINE-EARTH METAL OXIDES AS THERMIONIC	THERMIONIC CONVERTERS FOR NUCLEAR POMERPLANTS NAA-SR-7144 15-06
CATHODES - PRIMARY ELECTRON SOURCE - ELECTRON TUBE DEVELOPMENT AFCAL-63-84 N63-16867 14-09	CHEMICAL REGENERATION OF HOT METAL SURFACES - SUBLIMATION OF THERMIONIC CONVERTERS N63-16101 16-07
CARBIDES AS NUCLEAR HEATED THERMIONIC CATHODES GA-3007 N63-18048 16-23	SPECTRAL EMITTANCE OF ELECTRODE MATERIAL FOR THERMIONIC CONVERTER N63-18296 17-25
ELECTRON TUBE MATERIALS & THERMIONIC EMISSION PROCESSES - NICKEL ALLOY CATHODES & THIN FILM BARTUM-NICKEL EMITTERS AFCRI-63-194 M63-19757 19-09	PERFORMANCE OF CESIUM VAPOR THERMIONIC CONVERTER - ENHANCEMENT BY PHOTON IRRADIATION N63-19440 19-24
THERMIONIC CATHODES FOR ELECTROSTATIC ENGINES - EMISSION MECHANISMS, DISPENSATION MECHANISMS, AND CATHODE OPTIMIZATION	KRYPTON-ARGON GAS-FILLED THERMIONIC CONVERTERS USED AS NUCLEAR RADIATION GENERATORS N63-20366 20-09
NASA-CR-51584 N63-22703 23-09 THERMIONIC CONVERSION SYSTEM	CERAMIC TO METAL SEALS FOR HIGH TEMPERATURE THERMIONIC CONVERTERS RBESO-3404-3 N63-20369 20-17
A 90-DEGREE FLAT-PLATE TRIODE FOR DIRECT ENERGY CONVERSION - THERMIONICS NASA-TM-D-1532 N63-10180 01-06	CESIUM VAPOR THERMIONIC CONVERTERS - CURRENT DEMSITY, DSCILLATIONS, DUTPUT VOLTAGE, & CURRENT IN TRIODES 20-09
SQLAR ENERGY THERMIONIC CONVERSION SYSTEM ARS PAPER-2499-62 N63-10253 01-06 THERMAL ENERGY STORAGE FOR THERMIONIC CONVERSION	THERMIONIC ENERGY CONVERTERS FOR SPACE APPLICATIONS - CYLINORICAL CONVERTER ASD-TDR-63-442 N63-21788 22-09
ARS PAPER-2505-62 M63-10256 01-06 STAYUS OF SOLAR ENERGY COLLECTOR TECHNOLOGY	CLAD CARBIDE NUCLEAR FUEL THERMIONIC CONVERTERS A1-8672 N63-21816 22-26
ARS PAPER-2531-62 N63-10261 01-06 CHEMICAL, SOLAR, NUCLEAR ENERGY - THERMOELECTRIC & THERMIONIC DEVICES - METALLURGY, REFAACTORY, POLYMERIC & COMPOSITE MATERIALS - ABSTRACTS	CESIUM VAPOR ARC DISCHARGE PLASMA - RESONANCE RADIATION, LIFETIME, VOLT-AMPERE CHARACTERISTICS, AND THERMIONIC ENERGY CONVERSION NASA-CR-51574 N63-22247 23-24
TOR-930/2701-01/TM-1, VOL. II N63-12222 05-27 DESIGN REQUIREMENTS FOR PORTABLE, GASOLINE-POWERED	THERMIONIC CONVERTER RESEARCH - ARC GENERATORS & SOLID ION EMITTERS MR-25090 N63-22918 23-06
THERMIONIC GENERATORS TO PORTABLE, GASALINE-FORENEED THERMIONIC GENERATORS NG3-14141 09-06 THERMALIZATION OF ACCELERATED ELECTRONS IN CESSUM	KRYPTON 6 XENON GAS FILLED THERMIONIC CONVERTERS USING NUCLEAR RADIATION N63-23565 24-24
PLASMA - ENERGY CONVERSION N63-18294 17-24 THERMIONIC CONVERSION OF HEAT TO ELECTRICITY	VACUUM CHAMBER TEST OF HIGH TEMPERATURE SOLAR THERMIONIC GENERATORS N63-23597 24-13
GEST-2021 N63-21294 21-09	ENERGY CONVERSION STUDY OF PHOTON THERMIONICS

THERMIONIC CONVERTER
CF ENERGY CONVERSION

-06

-09

-06 -06 0

-27 -06 G ER -15

-07 -25 R -

-09

-17

T -09

-09 -26

6 1-04 15 1-24

-13

-23

EXPLORATORY STATIC ENERGY CONTHERMIONICS		LAYER	EMISSION STABILIZATION OF THERMIONIC DIODE MOISE NBS-TN-160 N63-11031 03-09
ASD-TDR-63-723		24-23	PERFORMANCE OF CESIUM THERMIONIC DIODES OPERATE
ERMIONIC EMISSION ELECTRON TUBE MATERIALS AND TH		ION	IN SERIES-PARALLEL CIRCUITS NAA-SR-7661 N63-12765 06-09
PROCESSES AFCRL-62-905	N63-10145	01-09	THEORY ONLY POWER CENERATORS - SECURENCY OF JAMA
THIN FILM ACTIVATOR-REFRACTORY	SUBSTRATE SYST		CONVERTING HEAT TO ELECTRICITY BY THERMIONIC DIODES N63-14234 10-06
THERMIONIC SURFACES	N63-14835	11-18	NUCLEAR THERMIGNIC SPACECRAFY POWER SUPPLY N63-14744 11-06
HIGH CURRENT DENSITY CATHODE	TUBES - UNIFORM	FERNING.	CLOSE-SPACED ANODE AND CATHODE IN THERMIONIC
SURFACE EMISSION OF ELECTRONS, OPERATING TEMPERATURE, EVAPORA	TION RATE	NDS 11-18	ASD-TDR-62-687 N63-16308 13-09
CLUSTER MODEL PROPOSED FOR DIS	SPENSING OF ACT	IVATOR	DIGITAL COMPUTER PROGRAM FOR ANALYSIS OF THERMIONIC DIODES
ATOMS IN CESIUM-ON-TUNGSTEN TH CATHODE TUBE ELECTRON EMISSION	. EVAPORATION		USING HALOGENS FOR CHEMICAL REGENERATION OF
ELECTRON TUBE MATERIALS AND TH	ERMIONIC ENISS		THERMIONIC DIODE SURFACES NASA-TN-D-1877 N63-18662 17-07
MONOCAPILLARY EMITTER AS DUAL		13-25 AND	MEON & ARGON ADDITIVES IN CESTUM THERMIC DIQUE - CESIUM ION TRAPPING AFCRL-63-607 N63-19159 18-24
ELECTRONS EDR-2617	N63-16307	13-24	The second secon
THERMIONIC EMISSION FROM METAL	CRYSTALS IN A	LKALT	THERMIONIC SCREENING OF BODIES IN ATMOSPHERE AND INTERPLANETARY SPACE
METAL VAPORS AFCRL-63-451	N63-16735	14-18	NASA-IN-A-90228
PRIMARY ELECTRON SOURCES - PHO THERMIONIC EMISSION, ENERGY DI			CARBIDE CATHODES FOR THERMIONIC EMITTERS AND RADIATORS FOR SPACE APPLICATION NASA-CR-51030 N63-21485 ZZ-09
TUNNEL DICOE CURRENT AFCRL-63-129	N63-16932	14-09	THE CONTRACT OF THE SAME OF THE PROPERTY OF TH
PERFORMANCE CHARACTERISTICS AN	711053 500000	1382	CF TEMPERATURE MEASUREMENT PROPERTIES OF PHOTODETECTORS - BLACKBODY RESPONSE
MEASUREMENTS TAKEN ON CESTUM THORTUM-TUNGSTEN EMITTER			DATA FOR COPPER OXIDE AND INDIUM ANTIMONIDE CELLS, AND THERMISTOR BOLOMETERS
AFCRL-63-450	N63-17082	15-15	NOLC-575 11 103 19904102140 40 41 N63-12409 06-15
THERMIONICALLY EMITTING PARTIC EXHAUSTS - MICROWAVE SPECTRUM		17-24	INFRARED PHOTODETECTORS - INDIUM ANTIMOMIDE CELLS, THERMISTOR BOLOMETERS, AND GERMANIUM CELLS NOLC-578 463-13625, OR-15
BEAM-PLASMA MICROWAVE INTERACT STIMULATED THERMIONIC EMISSION EE-560		BES 18-23	HEAT TRANSMISSION IN LEADS OF ROCKETSONDE THERMISTOR, WIND AND TEMPERATURE DISTRIBUTION AND ENERGY EXCHANGE IN STRATOSPHERE
NUCLEAR THERMIONIC EMITTERS OF		AZZE	M63-16921 14-12
CARBIDES AND EUROPIUM AND YTTE GEST-2009			SPECTAAL EMITTANCE OF THERMISTOR DETECTORS OF RADIOMETERS ON TIROS SATELLITES MS1-10, SUPPL. N63-17446 15-21
PROCESSES - NICKEL ALLOY CATHO			SOURCES OF ERROR IN ROCKETSONDE THERMISTOR DATA -
BARIUM-NICKEL EMITTERS AFCRL-63-194	N63-19757	19-09	REVIEW OF PROBLEM AREAS IN STRATOSPHERIC METEOROLOGY N63-17645 16-12
CARBIDE CATHODES FOR THERMIONI		AU'12 0018	WIND AND TEMPERATURE BETWEEN 30 AND 80-KM - THERMISTORS FOR ROCKETSONDE OF UPPER ATMOSPHERE
NASA-CR-51030	N63-21485	A-AL	1300 NOV STEET WITHAT 1 N63-17745 16-12
THERMIONIC ELECTRON EMISSION (COATED TUNGSTEN ACCELERATOR EI THRUSTERS			THERMOAMEMOMETER PULSED ULTRASONIC THERMOAMEMOMETER DESIGNED TO ELIMINATE ERRORS DUE TO ELEMENT HEATING AND STREAM
NASA-TN-D-1879	N63-21890	22-06	EFFECTS
TUNNELING, THERMIONIC EMISSION CONSTANT OF STRUCTURE CONTAINS			THERMOCHENISTRY
SURFACES SEPARATED BY THIN FIL TR-1162	M THEIR ATTON	23-09	THERMOCHEMISTRY OF DAYGEN-FLUORINE BONDING UTC-2002-QT7 N63-11890 04-07
HIGH TEMPERATURE METAL REACTION ELECTRON-EMISSION BEHAVIOR FOR CARBON IN TUNGSTEN & RHENIUM		N OF	THERMOCHEMISTRY - HYBRID COMBUSTION R-2267-8 N63-12123 05-26
BHI-1649	N63-22904	23-18	THERMAL PROPERTIES OF ALLOYS AT HIGH TEMPERATURES N63-14002 09-18
DEVELOPMENT OF THERMIONIC ENT	TTER MATERIALS N63-23459	24-09	CHEMICALLY-HEATED AUTOMATICALLY ACTIVATED
ERMIONICS A SOLAR ENERGY THERMIONIC /SET/ LOM-TEMPERATURE THERMIONIC PL/	N63-10452		CHEMICAL RELAXATION & MOLECULAR DISSOCIATION FROM VIBRATIONAL MEATING CAL-QM-1626-A-10 N63-14172 09-07
	94607		43-80 billion 0055-18-88

PLANETARY ENTRY RESEARCH FOR MARS AND VENUS, 1962- EQUILIBRIUM THERMOCHEMISTRY, DISSOCIATION, HEAT TRANSFER, SHOCK TUBES, VENUS IONOSPHERE TIS-R62-S0-84 N63-14713 10-29	URANIUM AND ZIRCONIUM CARBIDE CATHODES FOR THERMIONIC SPACE REACTORS - VAPOR LOSS, DIFFUSION RATE AND THERMOCONDUCTIVITY GA-2670 N63-13785 08-04
OXIDIZER RESEARCH - THERMOCHEMISTRY, STRUCTURE	THERMOCONDUCTIVITY AND EXPANSION OF BARIUM-LEAD-
ANALYSIS, BOND ENERGY, LATTICE ENERGY AND HEAT OF FORMATION	CALCIUM AND ZIRCONIUM TITANATES AND DEVELOPMENT OF PROTOTYPE RADIAC CALIBRATOR FOR SHIPBOARD USE
THERMOCHEMISTRY OF OXYGEN-FLUORINE BONDING	THERMOCONDUCTIVITY AND EXPANSION OF BARIUM-LEAD-
UTC-2002-FR N63-15440 12-07	CALCIUM AND ZIRCONIUM TITANATES N63-14266 10-18
DISSOCIATION ENERGY OF GROUP IV AND GROUP VI MOLECULES - SPECTROSCOPY AND THERMOCHEMISTRY DATA WADD-TR-60-782, PT. X N63-17940 16-07	USE OF IONIZATION GAUGE AS THERMOCONDUCTIVITY GAUGE N63-14443 10-15
THERMOCHEMISTRY - COMBUSTION HEATS OF TETRAPHENYL-TIN AND TETRAETHYL-GERMANIUM N63-19308 18-07	HEAT CONDUCTION IN ISOTROPIC ELASTIC SOLIDS - EQUATION FOR HEAT FLUX VECTOR IER SER. 131, ISSUE 20 N63-14500 10-23
	TIME AND CARRESTS AND AND CONTRACTOR OF THE CONT
YTTRIUM METAL HALIDE PREPARATION BY METALLOTHERMIC REDUCTION 8M-R1-6259 N63-19601 19-07	THERMOCONDUCTIVITY AND ELECTRICAL RESISTIVITY OF 21-TYPE GRAPHITE AT HIGH TEMPERATURES C-16 N63-15794 13-23
Indian Table - Chr.	25-21 1531-5AV. 25-24-15-16-16-16-16-16-16-16-16-16-16-16-16-16-
THERMOCHEMICAL EFFECTS OF FOREIGN PLANETARY ATMOSPHERES UPON LAMINAR HEAT TRANSFER IN HYPERSONIC STAGNATION REGION - GAS DYNAMICS NASA-CR-50882 N63-19949 19-13	LIMITATION OF MULTILAYERED RADIATION SHIELD - HEAT CONDUCTION AND RADIATION TRANSFER IN METAL FOIL N63-16057 13-13
THERMOCHEMISTRY RESEARCH - COMBUSTION AND REACTION CALORIMETRY, EQUILIBRIUM AND FREE RADICAL STUDIES	THERMOCONDUCTIVITY OF NONMETALLIC MATERIALS N63-16153 13-13
N63-22038 22-07	THERMOCONDUCTIVITY - METALS, ALLOYS AND SEMICONDUCTORS
THERMOCONDUCTIVITY CE COMPUCTIVE HEAT TRANSCER	ASD-TDR-62-74 N63-16305 13-25
ANISOTROPY OF THE SKIN IN RESPECT TO THERMO- CONDUCTIVITY	CALIBRATION OF THERMOCONDUCTIVITY VACUUM GAUGE TO 10 MINUS 4 TORR BY MEANS OF VOLUME-RATIO
RAE-TRANS-1011	CALIBRATION SYSTEM - PRESSURE MEASUREMENTS NASA-TN-D-1729 N63-16669 14-17
EFFECTS OF THERMAL CONDUCTION ON SONOLUMINESCENCE N63-10648 02-11	THERMOCONDUCTIVITY OF DILUTE COPPER AND COPPER-TIN
THERMOCONDUCTIVITY OF ANISOTROPIC SOLIDS AT HIGH	ALLOYS AROD-1954-10 N63-16792 14-13
TEMPERATURES - GRAPHITE ASD-TDR-62-608, PT. I N63-11563 04-13	THERMAL PROPERTIES OF REFRACTORY MATERIALS - HEAT CONDUCTION N63-17740 16-18
POLARIS PROGRESS REPORT, NOV 1962 - MATHEMATICS - THERMOCONDUCTION & FINITE DIFFERENCE METHODS N63-11700 04-13	DYNAMICAL PROPERTIES OF STELLAR CORONAS AND STELLAR WINDS - INTEGRATION OF HEAT FLOW
SEMICONDUCTING MATERIALS - PHOTOCONDUCTIVITY,	EQUATION - THERMOCONDUCTIVITY NASA-CR-50463 N63-18373 17-05
DIELECTRIC CONSTANT, AND THERMOCONDUCTIVITY N63-11967 05-25	SQUID PROJECT - THERMOCONDUCTIVITY OF NITROGEN AND
THERMOELECTRIC PHENOMENA - THERMOCONDUCTIVITY OF	ARGON MIT-34-P N63-18984 18-13
SEMICONDUCTORS BY SERIES COMPARATIVE METHOD N63-11968 05-25	THERMOCONDUCTIVITY OF STEAM UNDER PRESSURE -
RATH MESHER 7090 PROGRAM - INPUT DATA FOR HEAT	SQUID PROJECT MIT-32-P N63-19167 18-13
CONDUCTING CODES LAMS-2809 . N63-12259 05-20	RELATION OF THERMOCONDUCTIVITY, MOLECULAR WEIGHT,
DIFFUSIVITY OF TITANIUM CARBIDE AND THERMO- CONDUCTIVITY OF TITANIUM NITRIDE FOR NOZZLE	VISCOSITY & HEAT CAPACITY OF NONPOLAR POLYATOMIC GASES N63-19389 18-23
APPLICATION AI-8058 N63-12299 05-15	TRANSPORT THEORY OF FULLY IONIZED POTASSIUM PLASMA - THERMOCONDUCTIVITY, POTENTIAL GRADIENT &
THERMOCONDUCTIVITY OF IRRADIATED & NONIRRADIATED.	STABILITY MATT-204 N63-19910 19-24
SINTERED & NONSINTERED URANIUM OXIDE RELATED TO CRYSTALLINE STRUCTURE 04-6945 N63-12454 06-23	DIFFUSION COEFFICIENT AND THERMOCONDUCTIVITY OF SOLID ARGON N63-20074 20-25
EFFECTS OF AMBIENT DISSOCIATION AND SPECIES	THERMOCONDUCTIVITY OF SOLID ARGON - CRYOGENICS
DIFFUSION FOR NONEGUILIBRIUM SHOCK LAYERS 1AS PAPER 63-70	EFFECTIVE THERMOCONDUCTIVITY OF VENTILATED SHOW
SOLUTION OF TRANSIENT ONE-DIMENSIONAL HEAT CONDUCTION IN INFINITE SLAB	N63-22398 23-13
AEDC-TDR-63-43 N63-13425 08-13	VISCOSITIES AND THERMOCONDUCTIVITIES OF GASES AT HIGH TEMPERATURES SUITABLE FOR HEAT TRANSFER
PHONON SCATTERING AT LOCALIZED MODES AND THERMO- CONDUCTIVITY OF INSULATING CRYSTALS - ALKALI HALIDES WITH IMPURITY CENTERS	CALCULATIONS NASA-TR-R-132 N63-22862 23-13
N63-13467 08-25	APPARATUS FOR DETERMINING LOW TEMPERATURE THERMOCONDUCTIVITY OF METALS AND ALLOYS
THERMOCONDUCTIVITY, ELECTRICAL RESISTIVITY, AND SEEBECK COEFFICIENT OF ENARGITE-TYPE COMPOUNDS	NASA-TH-X-50852 N63-23040 24-13

THERMOCONDUCTIVITY, ELECTRICAL RESISTIVITY, AND SEEBECK COEFFICIENT OF ENARGITE-TYPE COMPOUNDS 8M-R1-6200 N63-13536 08-23

N63-15397 12-18

THERMODYNAMIC AND TRANSPORT PROPERTIES OF

ALLOYS OF RARE EARTH NETALS - VAPOR PRESSURE, THERMODYNAMICS, METALLURGY, AND X-RAY DIFFRACTION OF PRASEODYMIUM, NEDDYMIUM, AND SAMARIUM ARL-63-15 M63-1350 12-18

104

-04

-23

-18

-15

-23

-23

FAT

-13

-13

-25

TO

-17

TIN

-13

-18

-05

-13

-13

-23

8

-24

-25

-25

-13

-13

r

F

-

THERMOCOUPLE	IER REPR7-63 N63-13057 07-23
CF TEMPERATURE MEASUREMENT CF THERMOELECTRICITY PLASMA THERMOCOUPLE, RADIATION SHIELDING, AND	COMPUTER CALCULATED THERMODYNAMIC PROPERTIES OF HYDROGEN AT SPECIFIC TEMPERATURES AND PRESSURE ANL-6673 N63-13067 Q7-23
POWDER METALLURGY LAMS-2796 N63-10869 02-15	SYNTHESIS OF SILCARBANE POLYMERS FOR HIGH
TRANSPORT PHENOMENA AS APPLIED TO THERMOCOUPLES -	TEMPERATURE RESISTANCE RIA-62-4162 N63-13119 07-07
APPLICATION OF BOLTZMANN EQUATIONS AFCRL-62-1047 N63-11709 04-24	THERMODYNAMICS OF SODIUM DIMOLYBDATE AND SODIUM
TRANSDUCERS FOR HIGH VELOCITY GAS FLOW TEMPERATURE MEASUREMENT WITH DESIGN CRITERIA DETERMINED FROM	DITUNGSTATE BM-RI-6191 N63-13149 07-23
THERMOCOUPLE MEASUREMENTS N63-12272 05-11	THERMODYNAMICS OF CARBON DIOXIDE AND NITROGEN BEHIND NORMAL SHOCK WAVE
HEAT TRANSFER RATE MEASUREMENT IN HYPERVELOCITY WIND TUNNEL - THERMOCOUPLE EQUIPPED THIN-	MASA-IN-U-1333
CONTINUOUS SKIN MODEL AS HEAT MEASURING DEVICE N63-15063 11-13	GALLIUM AND SCANDIUM SESQUIOXIDES - THERMODYNAMIC
THERMOCOUPLE MATERIALS FOR TEMPERATURE MEASUREMENT	BM-RI-6198 N63-13313 G7-23
TO 4500 DEG F ON REENTRY VEHICLE SURFACES ASD-TDR-63-233 N63-16400 14-30	THERMODYNAMICS OF REFRACTORY METAL CARBIDES. BORIDES AND NITRIDES FOR USE IN NOZZLES - REDUCTION OF PYROMETER DATA SCATTER
PROPERTIES OF PHOTODETECTOR'S - DATA ON LEAD SELENIDE, INDIUM ANTIMONIDE, THERMOCOUPLE CELLS,	N63-13549 08-15
AND GOLAY DETECTOR CELL NOLC-564 N63-16668 14-06	THERMODYNAMIC FUNCTIONS FOR CARBON DIOXIDE IN THE RANGE 40-DEG C TO 1000 DEG C AND 1 BAR TO 1400 BARS PRESSURE
THERMOCOUPLE-TYPE DETECTORS FOR IN-CORE POWER	UCRL-7168 N63-13614 08-23
GEAP-4222 N63-19382 18-15	THERMODYNAMIC PROPERTIES OF NITROGEN N63-13663 08-23
SURFACE-ATTACHED THERMOCOUPLES DURING FORCED CONVECTION HEAT TRANSFER	THERMAL PROPERTIES OF SIMULATED LUNAR MATERIAL
100-16889 N63-20699 21-13	IN AIR AND IN VACUUM JPL-TR-32-368 N63-13767 08-29
THERMODYNAMIC PROPERTY THERMODYNAMIC PROPERTIES OF NITRYL FLUORIDE	THERMAL PROPERTIES OF TWENTY-SIX SOLID MATERIALS
JPL-TR-32-253 N63-10651 02-07	TO 5000-DEG F OR THEIR DESTRUCTION TEMPERATURES -
THERMODYNAMIC DESCRIPTION OF METALS BASED ON THE HIRROR-IMAGE CONCEPT, EQUATION OF STATE,	W20-10K-65-162 M62-13113 C6-16
DEFLAGRATION TO DETONATION NOLTR-62-149 N63-10653 02-23	SOLID SURFACE MORPHOLOGIES GOVERNED BY CAPILLARITY AND THERMODYNAMICS OF SURFACES - CRYSTAL
TEMPERATURE, VOLUME, PRESSURE TABLES OF THE	ANISOTROPY AROD-2781-3 N63-14361 10-23
THERMODYNAMIC FUNCTIONS OF MATER UCRL-7118 N63-11179 03-23	RESEARCH ON THERMODYNAMICS OF AL-B-O AND BE-B-O SYSTEMS 10-23
CRYOGENIC RED - HYDROGEN THERMOPHYSICAL PROPERTIES NBS-7607 N63-11544 03-23	THERMODYNAMICS OF SOLID SOLUTIONS & INTERMETALLIC COMPOUNDS DEFINING FREE ENERGY - STABILITY
THERMODYNAMICS OF YTTRIUM METAL AND IRON PENTA- CARBONYL AT HIGH TEMPERATURES	DETERMINATION ASD-TR-61-445, PT. II N63-14800 11-13
BM-RI-6155 N63-12176 05-18	THERMOPHYSICAL PROPERTIES OF DAYGEN AT LOW
THERMODYNAMICS OF BERYLLIUM PROPELLANT COMBUSTION PRODUCTS	TEMPERATURE - BIBLIOGRAPHY MBS-TN-137 N63-14810 11-19
U-1988 N63-12207 05-26	THERMODYNAMIC STUDY OF TIN AND LEAD SULFIDES WITH
MAGNETOHYDRODYNAMIC POWER GENERATOR HIT-29-P N63-12302 05-27	MASS SPECTROMETER - VAPORIZATION OF ALLOYS AND
THERMODYNAMIC PROPERTIES OF NITROGEN FROM 64-DEG	MADD-TR-60-782, Pt. VII M63-14879 11-07
TO 300-DEG K BETWEEN 0-1 AND 200-ATMOSPHERES NBS-TN-129 N63-12472 06-23	THERMODYNAMIC & TRANSPORT PROPERTIES OF POTASSIUM FOR USE IN HIGH TEMPERATURE NEAT TRANSFER - LIQUID METAL CODLED REACTOR N63-15005 11-13
THERMODYNAMIC PROPERTIES OF ROCKET ENGINE EXHAUST - BERYLLIUM COMPOUNDS	DENSITY & VAPOR PRESSURE OF RUBIDIUM & CESTUM FOR
N63-12497 06-07	USE IN HIGH TEMPERATURE HEAT TRANSFER - LIQUID METAL COOLED REACTCR N63-15006 11-13
LA-2813 N63-12603 06-18	THERMODYNAMIC PROPERTIES OF HIGH TEMPERATURE NITROGEN N63-15069 11-24
THERMAL POWER ENGINEERING - THERMODYNAMICAL COEFFICIENTS AND HEAT REGIME OF BODIES WITH	PREPARATION OF BLACK, ACTIVE SODIOR AZIDE -
INTERNAL ENERGY SOURCES FTD-TT-62-1200/18284 N63-12820 06-13	THERMODYNAMICS OF ALKALI AZIDES Ne3-19226 11-07

THERMODYNAMICS OF NICKEL-GOLD ALLOY IER REPR.-110-62 N63-13036 07-23

THERMODYNAMIC PROPERTIES OF RETAL MALIDES WITH VAPOR PRESSURE REFERENCES AND BIBLIOGRAPHY RM-1C-8147 N63-13037 07-07

THERMODYNAMICS OF SILVER-ZINC ALLOY

POTASSIUM

ALCO ON THE STATE OF THE STATE

THERMODYNAMIC PROPERTIES OF ROC COMBUSTION PRODUCTS - BERYLLIUM	AND ALUMINU		PARTITION FUNCTIONS AND THERMODYNAMIC PROPE OF ARGON PLASMA	
COMPOUNDS U-2116	N63-16398	14-26	AEDC-TDR-63-146 N63-20657	20-24
THERMODYNAMICS OF LIGHT METAL O		ES AND 14-23	THERMODYNAMIC PROPERTIES OF AIR IN CHEMICAL EQUILIBRIUM AEDC-TDR-63-161 N63-20997	21-13
ZINC OXIDE VAPORIZATION AND THE		100	THEOMODYNAMIC AND ELECTRONIC SPECTRAL	NAME OF THE OWNER, OWNE
PROPERTIES UCRL-10708	N63-17156	15-18	CHARACTERISTICS OF COMPLEX MOLECULES N63-21750	22-23
THERMODYNAMIC PROPERTIES OF HEL	IUM AT LOW		SPECTROSCOPIC STUDY OF THERMODYNAMIC PROPER	TIES
TEMPERATURES R-229	N63-17169	15-19	OF COMPLEXES BETWEEN IDDINE AND THIANTHRENE ANALOGS - MOLECULAR STRUCTURE	EAST TO SERVICE STATE OF THE S
DEPARTURES FROM LOCAL THERMODYN	AMIC EQUILIBI	RIUM IN	N63-21751	22-23
EMISSION AND ABSORPTION BY CONT STATES	INUOUS ENERG	Y	THERMODYNAMIC PROPERTIES OF DONOR-ACCEPTOR MOLECULES N63-21755	COMPLEX 22-23
ARL-63-63	N63-17471	15-23	SELECTED VALUES OF THERMODYNAMIC PROPERTIES	OF
THERMOPHYSICAL PROPERTIES OF ALL WORKING FLUIDS, COOLING SYSTEMS	AND LUBRICA	TION IN	METALS AND ALLOYS N63-21929 STATISTICAL EVALUATION OF LOW ORDER DISTRIE	22-18
POWER PLANTS	N63-17862	16-17	FUNCTIONS AND THERMODYNAMIC PROPERTIES OF	OUTTUN
THERMODYNAMIC PROPERTIES OF MOLY NIOBIUM - ANNOTATED BIBLIOGRAPHY	Y		NONUNIFORM EQUILIBRIUM FLOW N63-22049	22-11
\$8-62-69	N63-18002	16-18	VANADIUM ALLOY - EVALUATION OF FABRICATION, CRACKING, AND MECHANICAL PROPERTIES AT ROOM	
THERMODYNAMIC PROPERTIES OF AIR 15,000-DEG K	N63-18855	18-11	ELEVATED TEMPERATURES IITRI-8231-9 N63-22057	22-18
AEDC-TDR-63-138 THERMODYNAMIC PROPERTIES OF LIGHT	HT METAL OXI	DES,	THERMODYNAMIC PROPERTIES OF HIGH TEMPERATUR ARL-63-133 N63-22144	RE ARGON 22-11
HALIDES & DXYHALIDES THERMODYNAMIC PROPERTIES OF NORI	N63-18886 HAL HYDROGEN	18-07 FROM	MEASUREMENT OF THERMAL PROPERTIES OF LITHIUM HYDRIDE AND LITHIUM-HYDRIDE-LITHIUM MIXTURE	
SATURATION TEMP TO 540-DEG R AND PSIA		0.00	ENTHALPY AND CONDUCTIVITY NASA-CR-51371 N63-22167	23-23
NBS-TN-120A THERMOPHYSICAL PROPERTIES OF SOI			EQUILIBRIUM COMPOSITION AND THERMODYNAMIC PROPERTIES OF SODIUM VAPOR FROM 400 TO 10.0	000 DE6
AT HIGH TEMPERATURES NASA-CR-50737	N63-18997	18-07	MELVIN BALLISTICS RES. REPT79 N63-22236	23-11
THERMOPHYSICAL PROPERTIES OF PLANATERIALS AT CRYDGENIC TEMPERATE 8VJ-63-001-4		POSITE 18-19	THERMAL PROPERTIES OF HIGH-TEMPERATURE INSU MATERIALS ASD-TDR-63-574 N63-22592	
THERMODYNAMICS OF GRAPHITE OVER			THERMAL PROPERTIES OF HIGH STABILITY POLYM	
TO 6000-DEG K AND PRESSURES TO : CARBON VAPOR SYSTEM	1000-ATH - G	RAPHITE	N63-22697	
RM-3326-PR		18-23	TRANSIENT BEHAVIOR OF NATURAL CIRCULATION I OPERATING NEAR THERMODYNAMIC CRITICAL POINT	r
THERMODYNAMIC PROPERTIES OF POLY HYDROCARBON CHEMICAL VAPOR DEPO- RM-3708-PR		H 18-23	ANL-6710 N63-22756 THERMODYNAMIC PROPERTIES OF INTERMETALLIC	701/92
THERMODYNAMIC PROPERTIES OF POLY			SEMICONDUCTOR COMPOUNDS & KNUDSEN EFFUSION AFCRL-63-156 N63-22957	
ATH - TABLES AND GRAPHS RM-3709-PR	N63-19161	18-23	THERMODYNAMIC PROPERTIES OF ZIRCONIUM OXIDI ARL-63-170 N63-23105	
HIGH TEMPERATURE THERMODYNAMIC I LITHIUM OXIDE BY ELECTRIC DEFLEI STUDY BY MASS SPECTROMETER			LOW TEMPERATURE THERMODYNAMIC PROPERTIES OF STRONTIUM CHLORIDE & STRONTIUM FLUORIDE 8M-RI-6316 N63-23714	
AROD-006-9	N63-19215	18-07	THERMODYNAMIC PROPERTIES TO 6000-DEG KELVI!	. 500
STATISTICAL THERMODYNAMIC PROPER	N63-19271	UNIFORM 18-11	SUBSTANCES INVOLVING FIRST 18 ELEMENTS IN THE NATURAL STATE	THEIR
THERMODYNAMIC AND KINETIC DATA I	FOR DESCRIBI	NG	NASA-SP-3001 N63-23715	24-13
CHEMICAL PROPERTIES OF THE REFR. ZIRCONIUM AND HAFNIUM CARBIDES / ASD-TDR-62-204.PT.11	ACTORY MATER		THERMODYNAMICS SA AEMOTHERMODYNAMICS CF ENTHALPY	
			CF ENTAOPY	
THERMODYNAMIC PROPERTIES OF ROCI PRODUCTS - BERYLLIUM FLUORIDE, I			CF FLUID MECHANICS CF HEAT	
AND BERYLLIUM CHLORIDE U-2231	N63-19716	19-23	CF PLASMA PHYSICS	
COLLISION LIFETIMES AND THERMOO	YNAHICS OF R	EAL	THERMODYNAMIC PROPERTIES OF BIMETALLIC POM N63-10197	
GASES NASA-CR-50469	N63-20268	20-11	THERMODYNAMIC PROPERTIES OF HIGH TEMPERATUR	
THERMODYNAMICS AND HEAT CAPACITY	Y OF POLYMER		A STATE OF THE PROPERTY OF THE PARTY OF THE	DHEARING
GLASSES			SUNFLOWER THERMODYNAMIC POWER SYSTEM	110 315

NOME NO 3-22757 23-11

CAVITATION SCALE AND THERMODYNAMIC EFFECTS IN STATIONARY AND ROTATING COMPONENTS WITH WATER AND MERCURY N63-10530 01-11 AERODYNAMIC-THERMODYNAMIC STUDY OF CENTRIFUGAL

COMPRESSORS CANL-3294 NA3-11210 03-03

THERMODYNAMICS OF SEVERAL LIGHT METAL OXIDES, HALIDES AND DXYHALIDES

3

3

12

•

11

23

11

M

13

13

11

19

13

-13

-26

-12

-06

THERMODYNAMIC PROPERTIES OF BINETALLIC COMPOUNDS N63-11703 04-07

THERMODYNAMICS OF INTERSTITIAL SOLID SOLUTIONS WITH REPULSIVE SOLUTE-SOLUTE INTERACTIONS MAL-127

THERMODYNAMICS, KINETICS, AND EFFECTS OF CHEMICAL CONCENTRATIONS ON ALUMINUM-SULFATE PRODUCTION -73747 REV. N63-12055 05-07

EFFECT OF COMBUSTION GAS PROPERTIES ON TURBOJET ENGINE PERFORMANCE - ANALYSIS WITH HYDROGEN FUEL NACA-RM-E55J17A N63-12509 06-26

COLLISION LIFETIMES AND THERMODYNAMICS OF REAL VM 10 2 Jan M63-12022 06-11

MYPERSONIC FLOW DURING REENTRY - GAS THERMO-DYNAMICS, REENTRY BODY SHAPES, BALLISTIC AND LIFTING REENTRY MOTION EQUATIONS

N63-13284 07-11

AERODYNAMIC FIELD PRODUCED BY REENTRY BY FLYING AIR IN THERMODYNAMIC EQUILIBRIUM

N63-13302 07-02

THERMODYNAMIC BEHAVIOR OF HEISENBERG FERROMAGNET -TEMPERATURE PERTURBATION THEORY

N63-13429

N63-16723

08-07

14-20

VAPORIZATION AND CONDENSATION - EVAPORATION, N63-13576

NASA-TH-X-50000

GKYGEN SUPPLY FROM SPACE MINERALS - KINETICS AND THERMODYNAMICS OF STONY METEORITE REDUCTION BY N63-15271 12-07

SATURN SA-1 AND SA-2 FLIGHT TESTS - THERMODYNAMICS

HEAT TRANSFER BETWEEN SOLID SURFACES AND FLUIDS
HEAR THEIR THERMODYNAMIC CRITICAL POINT
N63-16979 14-13

PRESSURE-DENSITY-TEMPERATURE RELATIONS OF FLUID PARA HYDROGEN FROM 15 TO 100-DEG K AT PRESSURES TO 350 ATMOSPHERES - THERMODYNAMICS

NA3-17158 15-11

ARS ATMOSPHERE - SHOCK LAYER STUDIES -

NORGANIC CHEMISTRY, THERMODYNAMICS, SOLID STATE
MYSICS, KINETICS, ELECTROCHEMISTRY, METALLURGY
AND CERAMICS, MICROSTRUCTURE, AND REACTOR MATERIAL N63-17705 16-07

AERONAUTICAL, HYDRODYNAMIC, MECHANICAL, AN THERMODYNAMIC ENGINEERING N63-18069

SUITABILITY OF HIGH CHAMBER PRESSURES FOR LAUNCH VEHICLE ENGINES - EFFECTS ON THERMODYNAMIC
FFFICIENCY AND COMBUSTION STABILITY
MASA-CR-50584
M63-18488

STANDARDIZED THERMODYNAMIC DATA AND COMPUTER PROGRAM FOR ROCKET PERFORMANCE PREDICTION NG3-19106 18-23

AIR TEMPERATURE MEASUREMENT - THERMODYNAMICOZIGIGAR DETERMINATIONS NA3-19755

THERMOOYNAMIC MODEL OF CONDUCTIVITY DISPERSION
IN PLASMAS AND SEMICONDUCTORS - MAXWELLIAN ENERGY
NASA-TH-X-50236 20-2 NA3-20210 - 20-21

THERMODYNAMICS USED IN EXCITATION OF USING CELLS-

THERMODYNAMIC CYCLES OF ATOMIC POWER STATIONS WITH MAGNETOHYDRODYNAMIC GENERATORS M63-22107 22-06

ANALYSIS TECHNIQUES USING SECOND LAW OF THERMODYNAMICS

ANL-6741

THERHODYNAMIC AND TRANSPORT PROPERTIES OF COMMON GASES - HIGH TEMPERATURE, HIGH VELOCITY GAS STREAM M63-23482 24-24

THERMODYNAMIC CHARACTERISTICS OF LIQUID BISHUTH-

THERMODYNAMIC CHARACTERS INCOME TO THE STATE OF THE STATE

MEMORIASTICITY
SA AEROTHERMOELASTICITY
METHOD OF THE GREEN FUNCTION IN THE THERMOELASTIC
THEORY OF SHALLOW SHELLS
IER SER. 131, ISSUE 16 N63-10669 02-34

MONLINEAR HYPERSONIC THERMOELASTIC STABILITY AND N63-11068 03-33 CONTROL DERIVATIVES

STRUCTURAL DESIGN PROBLEMS IN A COMBINED THERMAL AND LOAD ENVIRONMENT - STRESS AND DEFLECTIONS N63-11077 03-34

SOLUTION FOR INFINITE SOLID BY DUAL INTEGRAL TO A SOLUTION FOR INFINITE SOLID BY DUAL INTEGRAL N63-14213 : 09-33

THERMOELASTIC DAMPING NA3-16578 14-33 ASD-TOR-62-1031

MEASUREMENT OF THERMAL STRESSES ARISING IN GUN-ELASTIC & ELECTRIC ANALOGY METHODS

N63-16614 14-33

N63-10309 01-06

CONFIRMATION OF THERMOELASTIC EQUATIONS FOR SANDWICH PANEL DEFLECTION
ASD-TDR-63-559 N63-19866 19-33

GENERATION OF RESIDUAL STRESSES AND DISTRIBUTION OF THE STREET OF T

N63-22042 22-33

THERMOELECTRIC CONVERSION SYSTEM SNAP-7 PROGRAM - STRONTIUM-90 FUELED THERMO-ELECTRIC GENERATOR B-NT-22B

MND-P-2483-6 FLAY-PLATE SOLAR THERMOELECTRIC CONVERSION PANELS

RADIATION EFFECTS ON THERMOELECTRIC GENERATORS SISSINUTH TELLURIDE USNROL-TR-581 N63-10909 02-23

CHEMICAL, SOLAR, NUCLEAR ENERGY - THERMOELECTRIC & THERMIONIC OEVICES - METALLURGY, REFRACTORY, POLYMERIC & COMPOSITE MATERIALS - ABSTRACTS TOR-930/2701-01/TN-1, VOL. II

N89-12222 A 05-27

COMPOUNDS AND ALLOYS OF MAGNESTUM, TIM, COPPER, LEAD AND GERMANIUM AS SEMICONDUCTORS IN THERMOELECTRIC PONER GENERATION TCREC-TR-62-112

DESCRIPTION AND SIMULATED LIFE TESTS OF NEW TYPE THERMDELECTRIC GENERATOR OPERATING ON PROPARE N63-14139 09-06

DESCRIPTION OF 45 WATT PORTABLE THERMOELECTRIC GENERATOR SEREE-ESSE

RADIOISOTOPE FUELED THERMDELECTRIC GENERATORS N63-14143 09-06	PRESSURE DEPENDENCE OF THE ETTINGSHAUSEN-MERNST EFFECT AND THERMOELECTRIC POWER IN ZINC WITH SOL HYDROGEN AS PRESSURE TRANSMITTING MEDIUM	
TRANSPORT PROPERTIES OF POLAR SEMICONDUCTORS WITH EMPHASIS ON LEAD TELLURIDE - USE IN THERMOELECTRIC	AROD-1579-10 N63-14054 09-23	
POWER GENERATION NASA-TN-D-1695 N63-14276 10-15	DESCRIPTION OF 45 WATT PORTABLE THERMOELECTRIC GENERATOR N63-14140 09-06	
STATUS OF THERMOELECTRIC DEVICES - GENERATORS, REFRIGERATION & AIR CONDITIONING EQUIPMENT, REACTORS, AND SOLAR PANELS	STATUS OF THERMOELECTRIC DEVICES - GENERATORS, PIN REFRIGERATION & AIR CONDITIONING EQUIPMENT, REACTORS, AND SOLAR PANELS	
NRL-MEMO-1361, PT. 2 N63-14441 10-23	NRL-MEMO-1361, PT. 2 N63-14441 10-23	
STRONTIUM-90 FUEL THERMOELECTRIC GENERATOR POWER SOURCE FOR NAVY FLOATING WEATHER STATION -SNAP 7D NND-P-2035 N63-15036 11-15	ANNOTATED BIBLIOGRAPHY ON THERMOELECTRIC EFFECTS N63-15801 13-25	
HIGH TEMPERATURE DESTRUCTIVE TESTING OF PLUTONIUM	THERMOELECTRICITY - IONIZATION OF SOLID PARTICLES AND ELECTRON CLOUD DISTRIBUTION	
FUEL CAPSULES FOR THERMOELECTRIC CONVERTER - SYSTEMS FOR NUCLEAR AUXILIARY POWER PROGRAM	ILL-10-P N63-16349 14-11	
AFSWC-TOR-62-12 N63-17019 15-07	THERMAL ELECTRIFICATION OF GAS-SOLIO SYSTEM - SOLIO	
OPTIMIZATION OF SILICON-GERMANIUM THERMOELECTRIC GENERATOR FOR WATER VEHICLE POWER SOURCE	SQUID PROJECT N63-16781 14-24	
TRECOM-TR-63-17	STRUCTURAL ANALYSIS OF COPPER-ANTIMONY-SELENIUM THERMOELECTRICAL MATERIALS N63-16838 14-18	
LIQUID THERMOELECTRIC SUPERCONDUCTORS AS DIRECT ENERGY CONVERSION MATERIALS N63-20006 19-23	THERMOELECTRIC MATERIALS - TELLURIDES & SULFIDES	
SNAP-78 STRONTIUM-90 FUELED THERMOELECTRIC		
MND-P-2836 N63-20584 20-06	THERMOELECTRIC COOLING OF BEARING SYSTEMS	
RADIDISOTOPE THERMOELECTRIC POWER GENERATORS - HEAT TRANSFER, POWER-TIME REQUIREMENTS, AND	E-1222 N63-18122 16-17	
RADIOISOTOPES D-709582 N63-23369 24-23	BEARING YIELD & LIFE IMPROVEMENT AND THERMO- ELECTRIC COOLING PROGRAM - AUG 1962 E-1214 N63-18358 17-17	
THERMOELECTRIC CONVERSION OF POLYCRYSTALLINE CERAMIC MATERIALS N63-23494 24-18	BEARING VIELD & LIFE INPROVEMENT AND THERMO- ELECTRIC COOLING PROGRAM - OCT 1962	
THERMOELECTRIC MATERIAL TELEFORM STEEL AND METTIGED	E-1249 N63-18359 17-17	
THERMOELECTRIC MATERIALS - RESISTIVITY & SEEBECK COEFFICIENT OF COPPER, NICKEL, & BISMUTH SULFIDES,	BEARING YIELD & LIFE IMPROVEMENT AND THERMO-	
CUPROUS TELLURIDE & LEAD TELLURIDE MIXTURES SRI-21 N63-16835 14-18	ELECTRIC COOLING PROGRAM - JAN 1963 E-1276 N63-18365 17-17	
THERMOELECTRIC MATERIALS - RESISTIVITY & SEEBECK	BEARING YIELD & LIFE IMPROVEMENT AND THERMO-	
COEFFICIENT OF MOLTEN CUPROUS SULFIDE AND CUPROUS SULFIDE-FERROUS SULFIDE COMPOSITION	ELECTRIC COOLING PROGRAM - DEC 1962 E-1266 N63-18366 17-17	
SR1-22 M63-16836 14-18	BEARING YIELD & LIFE IMPROVEMENT AND THERMO-	
THERMOCLECTRICITY THE PROPERTY OF THERMOCOUPLE PROPERTY OF THE PROPERTY OF T	ELECTRIC COOLING PROGRAM - FEB 1963 E-1317 N63-18424 17-17	
THERMOELECTRICITY - RELIABILITY AND RADIATION EFFECTS	ELECTRIC CONDUCTIVITY AND THERMOELECTRIC POWER OF	
MRL-MEMO-1361, PT. 1 3283-72 JAU N63-10586 02-06	NEARLY STOICHIOMETRIC URANIUM DIOXIDE AT 25 TO	
COOLING TECHNIQUES, THERMOELECTRIC, ULTRASONICS, CAYOGENICS	WAPD-270 SECRET AND N63-19295 18-25	
RAS-TH-62-6	STATIC NONLINEAR THEORY OF ELECTROMAGNETIC THERMO- ELASTIC SOLIDS	
SINGLE CRYSTAL BISMUTH TELLURIDE AFCAL-62-362 N63-11034 03-25	MEASURING HIGH TEMPERATURE GAS FLAMES WITH THERMOELECTRIC ELEMENTS - AIR-BREATHING ENGINES	
DIRECT ENERGY CONVERSION - ABSTRACTS N63-11677 04-06	HIGH TEMPERATURE MATERIALS FOR SPACE - ELECTRONIC	
THERMOELECTRIC COOLED, MIRROR TYPE DEMPOINT WITH HYGROMETER FOR HIGH ALTITUDE APPLICATIONS	WORK FUNCTION, THERMOELECTRIC PROPERTIES, AND CORROSION RESISTANCE OF ALKALI METALS	
BENDIX ALD-2055 N63-11877 04-15	MASSIZ 163-17176 19-20	
THERMOELECTRIC PHENOMENA - THERMOCONDUCTIVITY OF SEMICONDUCTORS BY SERIES COMPARATIVE METHOD N63-11968 05-25	THEORETICAL LIMIT OF THERMOELECTRIC FIGURE OF MERIT OF GENERATORS NASA-RP-34	
ELECTRICAL PROPERTIES OF PLUTONIUM OXIDES -	THERMOELECTRIC PROPERTIES OF SELENIDES AND	
RESISTIVITY, ACTIVATION ENERGY, AND THERMOELECTRIC POWER DETERMINATIONS	TELLURIDES OF 58 AND 68 METALS AND THEIR SOLID SOLUTIONS N83-23496 24-19	
HW-75120 MT BASTONOMOMERA VA N63-12410 0 06-23 J MOLTARRED BANCA TESTAL BORRENT	THEANOGRAVINETRY	
THERMOELECTRIC POWER OF FULLY IONIZED LOW TEMPERATURE PLASMA - SEEBECK COEFFICIENT OF ALKALI METAL PLASMAS	THERMAL DEGRADATION KINEFICS OF CHARRING PLASTICS FIBERGLASS REINFORCED PHENOLFORMALDEHYDE RESINS R61SD145 08-13	
MATT-174 49059 NO MITTAGES AND M63-13489 1 08-24	THERMOGRAVIMETRIC & DIFFERENTIAL THERMAL ANALYSIS	
THERMOCONDUCTIVITY, ELECTRICAL RESISTIVITY, AND SEEBECK COEFFICIENT OF EMARGITE-TYPE COMPOUNDS 89-81-6200 - M63-13536 08-23	OF POTASSIUM PERCHLORATE PA-TR-3046 112-07	

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194

SUL

07

THERHOGRAVIMETRIC METHOD OF OF POLYMERS - KINETIC TECHNIC CYCLING	DETERMINING PYROLYSIS QUE AND THERMAL
MOLTR-63-113	N63-22491 23-19
THERMOANALYTIC STUDIES OF TH HIGH POLYMERS - AUTOMATIC RE & THERMOGRAVIMETRIC ANALYSIS	OF POLYETHYLENE N63-23054 24-15
THERMOGRAVIMETRIC AND ELECTROF OXIDATION OF MOLYBDENUM S	ILICIDES
NEAROLUMINESCENCE DETERMINATION OF SURFACE TEM- ENISSIONS FROM THIN PHOTOLUM	PERATURES USING INESCENT COATINGS INC. N63-11307 03-23
THERNOLUMINESCENT SPECTRA OF HYDROXIDE-FREE SODIUM CHLORI 40-MEV ALPHA PARTICLES	DE IRRADIATED WITH
NASA-TN-D-1662	N63-14205 09-23
THERMOLUMINESCENCE SPECTRA AL FOR ARONATIC AMINO ACIDS. TR' BACILLUS MEGATERIUM	
CONTRACTOR OF THE PROPERTY OF	N63-17442 15-16
MEASURING IONIZING RADIATION LUMINESCENT DOSIMETERS - SATI	ELLITE GING MAIN MINI
NRL-5938	N63-17591 16-15
THERNOLUMINESCENCE AND GEOCH CARBONATE IN RELATION TO RAD CONTENT	IDACTIVE IMPURITY
F HEAT TREATMENT	AGIZVELSORS - SAGITA
MENUNECUANITCE.	TILM USING AUTOMATIC
LOW ALLOY STEEL RESPONSE TO TREATMENTS INVOLVING TRANSFOR	THERMOMECHANICAL RMATION TO BAINITES N63-19843 19-18
FIRST PLASMA ARC SEMINAR OF	THE THERMOMECHANICS
ARL-63-151 TYRKE PROBLEMS ROW	N63-23471 24-24
THERMOMECHANICAL TREATMENTS A STRENGTH BAINITES AND COMPARI AUSTENITE	N63-23587 Z4-18
ENMONETER TITE INONE DIATIONS -	TAIN PIEN THSULATERS
F TEMPERATURE MEASUREMENT WALL TEMPERATURE MEASUREMENT: THERMOMETRY	
THERMOMETRY ONERA-TR-108	N63-11294 03-15
USE OF JUNCTION DIODE AS LOW THERMOHETER	207070 10707
OPERATING LIMITS OF SURFACE T	10 2 F TO 1 4 5 T A 8 A - 10 3 5 A
SOLID CONDUCTION THEORY TO ME SELECTION CRITERIA CAL-124	N63-18751 17-13
ACCURACY OF SONIC THERMOMETER TEMPERATURE MEASUREMENT	S FOR ATHOSPHERIC
ERMONETRY THAT SAVOTHER HALF	N63-19403 19-15
F CALORIMETRY	OTHE MET WHITE SPECIES
UCRL-10294 THERMONUCLEAR RESE	N63-10141 01-23
THERMONUCLEAR DEVICES - PICKE PLASMA LENS, PLASMA GENERATOR LAMS-2874	T FENCE, GAS GUN.
CONTROLLED THERMONUCLEAR RESE UCRL-10607	
THERMONUCLEAR EQUIPMENT FOR F	LASMA RESEARCH
PART PART FAIR WALL STATE	TRAITAR

THERMONUCLEAR REACTOR FOR STUDY OF PROCESSES OF PHOTOCHENISTRY AND RADIOCHENISTRY AND EFFECTS OF NUCLEAR RADIATION ON SOLIDS AND SEMICONDUCTORS
N63-20252 20-10 COMMAND RESONANCE CHARGING SYSTEM FOR ASTRON ACCELERATOR - THERMONUCLEAR REACTION UCRL-7363 M63-20701 THERMOPHYSICAL PROPERTY
PROPERTIES OF GLASSES TRANSMITTING IN THE 8 TO 14
MICRON REGION
SCA-34300 N63-11889 04-19 FLAME CONTACT DETERMINATION OF THERMAL PROPERTIES
OF MATERIALS IN THIN LAYERS
NADC-HA-6217
N63-13013 07-11 M63-13015 07-13 REQUIREMENTS FOR DETERMINING THERMAL PERFORMANCE PROPERTIES OF AIRBORNE ELECTRONICS EQUIPMENT IN ENVIRONMENTAL TESTS N63-16753 14-09 HANDBOOK OF THERHOPHYSICAL PROPERTIES OF SPACE-CRAFT MATERIALS - THERMAL RADIATION AND MATERIALS STABILITY IN SPACECRAFT ENVIRONMENT MSC-0-55-63-3 R63-20841 21-11 N63-20841 21-13 ROOM AND ELEVATED THERMAL PROPERTIES OF TITANIUM-MOLYBDENUM ALLOYS COATED AND BARE REFRACTORY & SUPERALLOY THIN SHEET MECHANICAL AND THERMOPHYSICAL PROPERTIES SID-62-1219-3 N63-23790 24-18 44 288 ... GENERAL DESCRIPTION OF ATHOSPHERIC REGIONS -ANALYSIS OF HETEROSPHERE, THERMOSPHERE, IOHOSPHERE AFCRL-63-289 N63-14174 09-12 AERONOMIC PARAMETERS OF THERMOSPHERE AND LINESPHERE FROM MASS SPECTROMETRY N63-19683 19-12 ATHOSPHERIC STRUCTURE AND ITS VARIATIONS IN LOWER THERMOSPHERE AFCRL-63-873 M63-21235 21-12 TEMPERATURE STABILIZED ORDNANCE BINARY TIMER
PA-TH-1017 N63-11610 04-15 THERMAL DECOMPOSITION OF URANIUM MONOCARBIDE BY VAPOR PRESSURE TEST PNAC-378 1 2 2007 1347 N63-13092 07-07 THERMAL STABILITY OF TEFLON IN CONTACT METH AUSTENITIC STAINLESS STEEL AND OTHER STRUCTURAL MATERIALS NA3-15266 12-19 SYNTHESIS OF ADDITIVES TO IMPROVE HEAT STABILITY
OF ELASTOMERIC VULCANIZATES - SILICONE, DIENE, AND
FLUOROCARBON ELASTOMERS N63-16194 19-07 ORGANIC CHEMISTRY - PARTIAL AND PERFLUORIMATED POLYAROMATIC ETHERS - SYNTHESIS, THERMAL STABILITY AND PHYSICAL PROPERTIES - USE AS HYDRAULIC FLUIDS N63-17837 16-07 THERNAL STABILITY OF POLYMERIC MATERIALS
AROD-3301-1 N63-20224 20-07 THERMOANALYTIC STUDIES OF THERMAL STABILITY OF HIGH POLYMERS - AUTOMATIC RECORDING THERMOBALANCE & THERMOGRAVIMETRIC ANALYSIS OF POLYETHYLENE NS3-23054 24-15 N63-23054

N63-23054

NC NO CONTROL ON THE STREET STREET SERVICES TO SERVICES THERMOSTAT CASH CONTRACTOR AND STREET STREET STREET STREET CF CRYDSTAT RECIABILITY AS A THERMOSTRUCTURAL DESIGN CRITERION NO. 10308 01-34 SECRETAR PERSONAL PROPERTY PARTIES AND ASSESSMENT AND ASSESSMENT AND ASSESSMENT AND ASSESSMENT AND ASSESSMENT AND ASSESSMENT ASSESSM

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THERMOSTRUCTURAL ANALYSIS HANDBOOK - THERMAL STRESSES - STRUCTURAL SHELLS	THIN FILM MICROELECTRONICS N63-17353
WADD-TR-60-517, VOL. II N63-10908 02-33	MICROELECTRONICS RED AT NRL - TUNNEL DIODE FABRICATION, THIN FILMS, P-M JUNCTIONS, AND
THIANTHRENE SPECTROSCOPIC STUDY OF THERMODYNAMIC PROPERTIES OF COMPLEXES BETWEEN IODINE AND THIANTHRENE— AMALOGS — MOLECULAR STRUCTURE	RADIATION EFFECTS N63-17358 HICROELECTRONICS - THIN FILM COMPONENTS N63-17361
N63-21751 22-23	MICROELECTRONICS - THIN FILM AIRBORNE COMPUT
THICKENER PARTICLE PRODUCTION OF BORON NITRIDE AS A GREASE THICKENER N63-17842 16-07	M63-17363 MICROELECTRONICS - MATERIALS AND PROCESSES 1
THICKNESS	THIN FILM CIRCUITS N63-17364
S FILM THICKNESS S OPTICAL THICKNESS S TARGET THICKNESS	MICROELECTRONICS - THIN FILM CIRCUITS AND PI SHIFT OSCILLATOR N63-17365
THIN BODY Chara Services Committee and Administration in	MICROELECTRONICS - INTEGRATED PASSIVE AND ACTION FILM TECHNOLOGY N63-17367
LINEAR THEORY OF TWO-DIMENSIONAL FLOWS ABOUT THIN BODIES 03-11	MICROELECTRONICS - THIN FILM APPROACH TO COL ELECTRONIC APPARATUS N63-17370
UNSTEADY MOTIONS THEORY FOR JET-FLAPPED THIN AIRFOIL - CAUSED BY UNSTEADY FLOW N63-15173 11-03	MICROELECTRONICS - SYNTHESIS OF DECODER SUB-
THIN FILM CHEMICAL, OPTICAL, AND MATHEMATICAL INVESTIGATIONS	FLUX REVERSAL IN PERMALLOY FILM BY NEEL WALL MOTION N63-17742
OF THIN ABSORBING FILMS ON METAL SUBSTRATES AFCRL-62-1045 N63-10120 01-23	THIN FILM OXIDATION TEST OF LUBRICANTS FOR TURBINE ENGINES M63-17658
THIN FILM PRODUCTION TECHNIQUE N63-10160 01-17	FRICTION & WEAR CHARACTERISTICS OF CERAMIC- SOLID LUBRICANT FILM N63-17668
SOLAR CELLS WITH THIN FILM CADMIUM SULFIDE ARS PAPER-2566-62 N63-10272 01-06	MECHANISMS OF FATIGUE IN THIN FILMS OF ALUM
BEARINGS FOR VACUUM OPERATION NASA-TN-D-1339, PHASE I N63-10931 02-17	ALLOYS - PROPAGATION OF FATIGUE CRACKING IN ALUMINUM N63-18142
DETERMINATION OF SURFACE TEMPERATURES USING EMISSIONS FROM THIN PHOTOLUMINESCENT COATINGS N63-11307 03-23	QUASISTATIC MAGNETIC PROPERTIES OF THIN PER FILM USING AUTOMATIC MAGNETIC TORQUE BALANCI NASA-CR-50627 N63-18420
METALLIC THIN FILM COMPOSITE MATERIALS ASD-TDR-62-617 N63-11570 04-18	FAILURE MECHANISMS AT INTERFACE BETWEEN META AND THIN FILM DIELECTRIC RADC-TDR-63-152 M63-18640
METALLIC CRYSTAL LATTICE IMPERFECTIONS RELATED TO FATIGUE AND FRACTURE OF THIN ALUMINUM FILMS N63-12237 05-33	TRANSITION RADIATION FOR CHARGED PARTICLE A OBLIQUE INCIDENCE TO THIN CONDUCTING FILM SEPARATING TWO MEDIA OF DIFFERENT REFRACTIVI AFCRI-63-167 N63-19549
SEMICONDUCTING FILM TRANSISTOR OF CADMIUM SULFIDE AFCRL-62-965 07-09	THIN FILM INSULATORS - ELECTRIC PROPERTIES CONDUCTION MECHANISM No.3-19671
DC VOLTAGE IN FERRITE FILMS UNDER MICROWAVE EXCITATION - MAGNETORESISTANCE AND HALL EFFECT PIBMRI-108-62 N63-13645 08-23	ELECTRON TUBE MATERIALS & THERMIONIC EMISSI PROCESSES - NICKEL ALLOY CATHODES & THIN FIL BARIUM-NICKEL EMITTERS
PRIMARY ELECTRON SOURCES - THERMIONIC CATHODES AND KINETIC DEVICES SUCH AS THIN FILM INSULATORS	AFCRL-63-194 N63-19757 EVAPORATED THIN-FILM TRANSISTORS
AND SUPERCONDUCTORS AFCRL-63-5 N63-14310 10-09	AFCRL-63-178 N63-19880
COMPATIBLE TECHNIQUES FOR INTEGRATED CIRCUIT FABRICATION - THIM FILMS, CAPACITORS, RESISTORS N63-14327 10-09	INTEGRATED CIRCUIT TECHNOLOGY - THIN FILM 6 CONDUCTOR FUNCTIONS N63-20117
THIN FILM ACTIVATOR-REFRACTORY SUBSTRATE SYSTEMS FOR HIGH DENSITY EMISSION CATHODE TUBES —	IMPROVEMENT OF SOLAR ENERGY CONVERSION IN C SULFIDE THIN FILM PHOTOVOLTAIC CELLS N63-20941
THERMIONIC SURFACES AFCRL-69-69 N63-14835 11-18	CADMIUM SULFIDE THIN FILM PHOTOVOLTAIC CELL NASA-CR-51210 N63-21364
EVAPORATED THIN-FILM TRANSISTOR - DESIGN AND DPERATION AFCRL-63-67 N63-15480 12-09	ACTIVE THIN FILM TRIODE DEVICE DEPENDENT UP
MAGNETOSTRICTIVE GENERATION OF MICROWAVE PHONONS	J046-3 N63-21835
BY THIN MAGNETIC FILMS AFCRL-63-57 N63-15659 12-25	CALCULATION OF ELECTRON ENERGY DEPOSITION IN FILM POLYMERIC MATERIALS NASA-TH-D-2010 N63-21896
ELECTRON MICROSCOPE AND MAGNETOMETER INVESTIGATION OF STRUCTURAL AND MAGNETIC PROPERTIES OF THIN FERROMAGNETIC FILMS	CHEMICALLY SPRAYED THIN FILM PHOTOVOLTAIC
WADD-TR-60-787, PT. 11 N63-15797 13-17	121-22101 00001-E941

MICROELECTRONICS - THIN FILM AIRBORNE COMPUTER N63-17363 15-28
MICROELECTRONICS - MATERIALS AND PROCESSES FOR THIN FILM CIRCUITS N63-17364 15-17
MICROELECTRONICS - THIN FILM CIRCUITS AND PHASE- SHIFT OSCILLATOR N63-17365 15-04
MICROELECTRONICS - INTEGRATED PASSIVE AND ACTIVE THIN FILM TECHNOLOGY N63-17367 15-17
MICROELECTRONICS - THIN FILM APPROACH TO COMPLEX ELECTRONIC APPARATUS N63-17370 15-17
MICROELECTRONICS - SYNTHESIS OF DECODER SUBSYSTER USING THIN FILM TECHNIQUES N63-17376 15-09
FLUX REVERSAL IN PERMALLOY FILM BY NEEL WALL MOTION N63-17742 16-24
THIN FILM OXIDATION TEST OF LUBRICANTS FOR GASTURBINE ENGINES N63-17858 16-17
FRICTION & WEAR CHARACTERISTICS OF CERAMIC-BONDES SOLID LUBRICANT FILM N63-17668 16-17
MECHANISMS OF FATIGUE IN THIN FILMS OF ALUMINUM ALLDYS - PROPAGATION OF FATIGUE CRACKING IN PURE ALUMINUM N63-18142 16-31
QUASISTATIC MAGNETIC PROPERTIES OF THIN PERMALLOF FILM USING AUTOMATIC MAGNETIC TORQUE BALANCE NASA-CR-50627 N63-18420 17-18
FAILURE MECHANISMS AT INTERFACE BETWEEN METAL FILM AND THIN FILM DIELECTRIC RADC-TOR-63-152 N63-18640 17-99
TRANSITION RADIATION FOR CHARGED PARTICLE AT OBLIQUE INCIDENCE TO THIN CONDUCTING FILM SEPARATING TWO MEDIA OF DIFFERENT REFRACTIVE INDEX AFCRL-63-167
THIN FILM INSULATORS - ELECTRIC PROPERTIES AND CONDUCTION MECHANISM N63-19671 19-17
ELECTRON TUBE HATERIALS & THERMIDNIC EMISSION PROCESSES - NICKEL ALLOY CATHODES & THIN FILM BARIUM-MICKEL EMITTERS AFCRL-63-194 N63-19757 19-07
EVAPORATED THIN-FILM TRANSISTORS AFCRL-63-178 N63-19880 19-25
INTEGRATED CIRCUIT TECHNOLOGY - THIN FILM & SEMI- CONDUCTOR FUNCTIONS - N63-20117 20-09
IMPROVEMENT OF SOLAR ENERGY CONVERSION IN CAOMIUS SULFIDE THIN FILM PHOTOVOLTAIC CELLS N63-20941 21-25
CADMIUM SULFIDE THIN FILM PHOTOVOLTAIC CELLS NASA-CR-51210 N63-21364 22-44
ACTIVE THIN FILM TRIODE DEVICE DEPENDENT UPON TUNNELING FOR GAIM MECHANISM 1046-3 22-73
CALCULATION OF ELECTRON ENERGY DEPOSITION IN THIS- FILM POLYMERIC MATERIALS NASA-TW-D-2010 N63-21896 22-19
CHEMICALLY SPRAYED THIN FILM PHOTOVOLTAIC CONVERTER N63-22340 23-8
TUNNELING, THERMIONIC EMISSION, & DIELECTRIC CONSTANT OF STRUCTURE CONTAINING TWO METAL SURFACES SEPARATED BY THIN FILM INSULATION TR-1162 23-99

N63-15797 13-17

N63-17079 15-09

MICROMINIATURE AMPLIFIER WITH THIN FILM PASSIVE COMPONENTS TR-1119 N63-17079 15-09

5-09 5-09 5-20 5-17

VE 5-17 EX 9-17 TER 5-09

6-24 6-17 0ED 6-17

H RE 4-33 LOV 7-10 FILA 7-09

9-23 9-17

9-09 9-25 MI-0-09 IUM 1-25

2-2) HIN-2-1)

3-01

ULTRAHIGH VACUUM EVAPORATOR FOR SILICON AND/OR GERMANIUM FILMS - EFFECT STUDIES	DEPOSITING A - OPTICAL AND	HALL
0445-2	N63-22631	23-19
HIGH VACUUM DEPOSITED ACTIVE TH SEMICONDUCTORS, DIODES, AND TRAI 9445-4		23-09
SOLAR ENERGY CONVERSION USING THE	N63-22698	23-28
SEMICONDUCTOR THIN FILMS		23-09
THIN FILM ACTIVE DEVICES - HOT I COLLECTORS, METAL EDGE AMPLIFIED ALUMINUM OXIDE FILMS	R TRIODES. AN	D
JO46-4	N63-22976	23-25
NI WALL VIBRATION CHARACTERISTICS OF PRI THIN-WALLED CIRCULAR CYLINDERS		WITH
MASA-TR-R-145	N63-23358	24-11
IN MALLED SMELL BIAXIAL CREEP OF THIN-WALLED TUI ALLOY AT HIGH TEMPERATURES	BES OF ALUMIN	UH
ARL 62-434	N63-10525	01-33
STABILITY OF THIN WALLED CIRCUL	AR CONICAL SH N63-10836	ELLS 02-33
BREATHING VIBRATIONS IN HOMOGENE HOMOGENEOUS THIN CYLINDRICAL SHO	ELLS	06-33
SHELL HEATED ALONG AXIAL STRIP SUDAER-142		
SLOW CYCLE STRAIN FATIGUE IN THE		6 08-33
NUMERICAL ANALYSIS OF SMALL FINE DEFORMATION OF THIN SHELLS OF RE ERR-AM-153	ITE AXISYMMET EVOLUTION N63-13964	RIC 09-20
FLUTTER OF THIN WALL CYLINDRICAL SM-62-37	L SHELLS N63-14006	09-33
STRESSES AND DEFORMATIONS OF PRI THIN SHELLS SUBJECTED TO ADDITIO OF INFLATABLE STRUCTURES	ONAL LOADS -	SHAPES
ARQD-3065-1	N63-14067	09-33
STABILITY BEHAVEOR OF THIN-HALL PHOER AXIAL LOAD AND INTERNAL PHOER BYL-243	ED CONFCAL SH RESSURE N63-14409	10-02
NEAT TRANSFER RATE MEASUREMENT WIND TUNNEL - THERMOCOUPLE EQUITORITHOUS SKIN MODEL AS HEAT HE	PPED THIN-	
BEFORMATION OF UNSTIFFENED, THIS		
ORL-MEMO-1461 THIN WALL TEFLON FRUSTRUM FABRIC BONDING PROCESS		T
VIBRATIONS OF THIN SHELLS - ANNI 58-63-43	AND LEWISHED - 30	
WEREN AND MOTTANISTERS WE WILLIAM	ATZ STEER STA	WOK
AXIAL LOAD DIFFUSION INTO THIN- CYLINDRICAL SHELL ARC-CP-644	N63-22209	23-33
COMPARISON OF CREEP THEORIES IN WALLED TUBE SUBJECTED TO AXIAL	CASE OF THIN ELONGATION N63-22529	23-33
CYCLIC MATERIAL DAMPING IN THIN SPECIMENS OF MANGAMESE-COPPER A AKIAL & INTERNAL PRESSURE LOADING	WALLED CYLIN LLOYS SUBJECT NG	DRICAL ED TO
ASD-TOR-63-647 JAMES ZERGE - 22507 NO 237A 23300 MAJ 8041 PG 30 2013	H63-22593	23-33

THIONIME POWER SYSTEM FEASIBILITY OF A THIONINE PHOTOGALVANIC POWER GENERATING SYSTEM ASD-TOR-62-373 N63-10744 02-06
THIOPHENE SA HEPTAFLUOROBUTYRLTHIOPHENE PARTIALLY FLUORINATED ALIPHATIC COMPOUNDS BY REDUCTIVE DESULFURIZATION OF SUBSTITUTED THIOPHENE - ALCOHOL, KETONE A62-16 N63-13328 06-07
THIXOTROPIC PROPELLANT CF GEL SAFETY INVESTIGATION OF GELLED PROPELLANT FOR LIQUID ROCKET RTD-TDR-63-1069 N63-22727 23-26
THOMAS-FERMI THEORY MODIFICATION OF MOMENTUM REGION IN THOMAS-FERMI THEORY LA-2750 M63-11572 04-23
TABLES OF CLASSICAL SCATTERING INTEGRALS FOR BOHR, BORN-MAYER, AND THOMAS-FERMI POTENTIALS ORNL-3493 N63-22227 23-23
THOR AGENA B ELECTRIC ROCKET TEST OUT OF EARTH SHADOW - THORAGENA LAUNCH OF SOLAR ELECTRIC TEST SATELLITE /SET/ PROGRAM AIAA PAPER-63035 N63-21167 21-06
THORIUM MATURAL RADIOELEMENTS AND ANALYTICAL METHODS FOR URANIUM, THORIUM, AND THEIR DECAY PRODUCTS AEC-TR-5458 N63-12164 05-23
PERFORMANCE CHARACTERISTICS AND EMISSION COOLING MEASUREMENTS TAKEN ON CESIUM THERMIONIC CONVERTER WITH THORIUM-TUNGSTEN EMITTER AFCRI_63-450 M63-17082 15-15
IRRADIATION EFFECTS ON THORIUM AND THORIUM-URANIUM ALLOYS ANL-5674 N63-17914 16-18
RESONANCE ABSORPTION OF NEUTRONS IN THORIUM GA-3125 N63-18020 16-23
WORK HARDENING CHARACTERISTICS OF THORIUM 15-576 N63-20765 21-18
NUCLEAR RADIATION EFFECT ON METALLIC FUELS - URANTUM, THORTUM, PLUTONIUM & THEIR ALLOYS REIC-29 N63-22935 23-18
THORIUM ALLOY SPECTROPHOTOMETRIC DETERMINATION OF ZIRCONIUM IN THORIUM-ZIRCONIUM ALLOYS N63-12437 06-07
OXIDATION OF TUNGSTEN-THORIUM ALLOY - COMPARISON MITH UNALLOYED TUNGSTEN RAC-1032 N63-13956 00-18
METALLURGICAL RESEARCH - RARE EARTH, HAFMIUN, THORIUM, AND REFRACTORY ALLOYS - SOLID-STATE DIFFUSION BONDING AND MELTING RESEARCH USBM-U-1001 N63-14294 10-18
RARE EARTH, HAFNIUM, THORIUM REFRACTORY ALLOYS AND MELTING RESEARCH CONSIDERATIONS - PROGRESS REPORT USBM-U-1031 N63-15730 12-18
IRRADIATION EFFECTS ON THORIUM AND THORIUM-URANIUM ALLOYS ANL-5674 N63-17914 16-18
RARE EARTH, HAFNIUM, THORIUM, & REFRACTORY HIGH- TEMPERATURE ALLOYS, SOLID STATE DIFFUSION BONDING, AND MELTING PROCESSES USBM1057 N63-19613 19-18
STRUCTURE OF MAGNESIUM-THORIUM-ZINC-ZIRCONIUM ALLOY - EFFECT OF TEMPERATURE, OXIDATION AND HYDROGENATION M63-20695 21-18
THORIUM CARBIDE THORIUM & URANIUM DICARBIDE FUEL PARTICLE FOR HIGH

TH

TH

TH

TEMPERATURE GAS-COOLED REACTOR GA-2881 N63-19234 18-17	COLLISION LIFETIMES AND LIFETIME MATRIX FOR THREE- BODY AND MANY-BODY BREAKUP PROCESSES NASA-CR-50450 N63-18272 17-23
NUCLEAR THERMIONIC EMITTERS OF URANIUM AND THORIUM CARBIDES AND EUROPIUM AND YTTRIUM HEXABORIDES GEST-2009 18-23	THREE BODY PROBLEM BY HAMILTON-JACOBI PERTURBATION THEORY - GUIDANCE SYSTEMS N63-18694 17-29
THORIUM COMPOUND OXIDATION OF TUNGSTEN-THORIUM ALLOY - COMPARISON WITH UNALLOYED TUNGSTEN RAC-1032 N63-13556 08-18	THREE BODY PROBLEM ZERO VELOCITY CURVES - EULER TWO CENTER PROBLEM BY GRAPHICAL ANALYSIS - GUIDANCE SYSTEMS N63-18695 17-29
RAC-1032 N63-13556 08-18 CALCULATION FOR ZPR-VII LATTICE CRITICALITY EQUATION WITH THORIA-URANIA FUEL IN HEAVY WATER ANL-6661 08-26	THREE-BODY MOON-EARTH SATELLITE ORBIT AND TRAJECTORY CALCULATIONS FOR INJECTION AND PERISELENUM NASA-TM-X-50278 N63-19963 19-29
HIGH TEMPERATURE NICKEL ALLOY CONTAINING THORIUM OXIDE - OXIDATION RESISTANCE AND FABRICATION STUDIES NASA-TN-D-1944 N63-18133 16-18	GEOMETRICAL CHARACTERISTICS OF COPLANAR EARTH- MOON TRAJECTORIES IN JACOBIAN THREE-BODY MODEL NASA-TM-X-50277 N63-20207 20-21
DISPERSION STRENGTHENED NICHROME THORIA ALLOYS - PHYSICAL PROPERTIES N63-19466 19-18	ASTRONOMICAL ASPECTS OF SPACE EXPLORATION - ASTRONOMER AND ENGINEER RELATIONSHIP, ASTRONOMICAL UNITS, AND THREE BODY PROBLEM
OXYGEN DIFFUSION THROUGH THORIUM OXIDE AND BORIDE	N63-20545 20-21
PROTECTED GRAPHITE ASD-TDR-63-635 N63-20007 19-18	PERTURBATION THEORY OF THO-FIXED-CENTER PROBLEM LEADING TO APPROXIMATION OF THREE-BODY PROBLEM RAC-1645 N63-20760 21-21
MATRIX AND COMPOSITE MATERIALS OF ZIRCONIUM OXIDE, THORIUM OXIDE, AND MAGNESIUM OXIDE WITH TUNGSTEN - PROTECTIVE COATINGS FOR THERMAL INSULATION NASA-CR-50877 N63-20259 20-19	VARIATIONAL THEORY OF THREE-BODY ELECTRON-ION RECOMBINATION RATES AVCO-EVERETT RES. REPT158 N63-20946 21-2
IMPROVED TENSILE PROPERTIES OF DISPERSION— STRENGTHENED NICKEL ALLOYS PREPARED BY THERMAL DECOMPOSITION OF THORIUM NITRATE	THE THREE- OR MANY-BODY PROBLEM - ANNOTATED BIBLIOGRAPHY SID-63-157 N63-21197 21-20
N63-23630 24-18	THREE-BODY RECOMBINATION RATE CONSTANTS FROM CURV
THORIUM 234 POLARITY AND RELATIVE INTENSITY OF GAMMA RAYS	OF VARIATIONAL THEORY AMP-119 N63-23097 24-8
PROTACTINIUM-234 METASTABLE N63-13943 09-23	THREE-DIMENSIONAL BOUNDARY LAYER
THORON DEVICE FOR MEASUREMENT OF THORON IN THE BREATH UR-619 N63-11844 04-16	DEVELOPMENT OF FLOW SEPARATIONS RELATED TO INCIDENCE OF WINGS WITH SHARP LEADING EDGES - THREE-DIMENSIONAL BOUNDARY LAYER ANALYSIS AGARD-275 N63-11038 04-0
THREE-BLADE PROPELLER TESTS AND DESIGN DIAGRAMS OF THREE-BLADED CONTROLLABLE PITCH PROPELLERS	THREE-DINENSIONAL TURBULENT BOUNDARY LAYER IN HYPERSONIC FLOW PIBAL-773 N63-12132 05-1
TTRI-57 N63-15233 11-34	
THREE-BODY PROBLEM	THREE-DIMENSIONAL STRUCTURE OF PLANETARY BOUNDARY LAYER - MICROMETEOROLOGY, TURBULENT
CF MANY-BODY PROBLEM PERIODIC SOLUTIONS PASSING NEAR BOTH MASSES OF THE RESTRICTED THREE-BODY PROBLEM - KEPLERIAN ELLIPSES ARS PAPER-2604-62 N63-11252 03-29	BOUNDARY LAYER N63-12580 06-2 THREE-DIMENSIONAL TURBULENT BOUNDARY LAYER IN HYPERSONIC FLOW - HEAT TRANSFER STUDY
LAGRANGE THEORY OF THREE-BODY PROBLEM - CELESTIAL	ARL-63-26 N63-15709 12-1
MECHANICS MASA-TN-D-1417 N63-12074 05-05	THREE-DIMENSIONAL TURBULENT BOUNDARY LAYERS - CALCULATION OF VELOCITY PROFILES AND SHEAR STRESS
THREE-BODY COLLISION RATES IN ATOMIC RECOMBINATION	COMPONENTS ARC-CP-635 N63-22854 23-11
REACTIONS N63-12079 05-23	THREE-DIMENSIONAL FLOW
THREE-BODY PAOBLEM - A SYMMETRIC REPRESENTATION - MOTION IN A PLANE N63-12085 05-21	HYPERSONIC FLOW ANALYSIS — REAL GAS OBLIQUE SHOCK FUNCTIONS FOR AIR IN CHEMICAL EQUILIBRIUM — TWO AND THREE DIMENSIONAL FLOW
LIBRATION ORBITS OF A PARTICLE NEAR TRIANGULAR POINT IN SEMIRESTRICTED THREE-BODY PROBLEM	DM-63-1 N63-13813 09-L
SAD SPECIAL REPT108 N63-12118 05-29	SURVEY OF CLASSIC RESULTS AND RECENT RESEARCH ON THREE-DIMENSIONAL BOUNDARY LAYER FLOW
MOTION OF SMALL BODY IN VICINITY OF STABLE LIBRATION POINTS OF EARTH-MOON SYSTEM	DK-532526
N63-13273 07-29	VORTEX SHEET STABILITY IN PERTURBATION OF THREE- DIMENSIONAL COMPRESSIBLE FLUID FLOW
HILL LUNAR THEORY MODIFICATIONS AND COMPUTER APPLICATION FOR SOLUTION OF THREE-BODY PROBLEMS NASA-TW-D-1540 08-29	NASA-CR-50332 463-17201 15-2 LAMINAR BOUNDARY LAYER IN THREE DIMENSIONAL FLOW
PERIODIC SOLUTION OF RESTRICTED THREE BODY PROBLEM AS ANALYTIC CONTINUATION OF REPLETIAN ELLIPTICAL	STAGNATION FLOW AROUND BLUNT BODY AND CONE SSD-TOR-62-101 N63-17892 16-1
MOTIONS NASA-TN-D-1859 N63-15421 12-20	INVERSE METHOD FOR DETERMINING THREE-DIMENSIONAL SUBSONIC FLOW REGION ABOUT NONAXISYMMETRIC BLUNT
COLLISION AND CAPTURE TRAJECTORIES IN THREE-BODY	BODIES AT SUPERSONIC FREE STREAM MACH NUMBER SSD-TDR-63-119 N63-18192 16-0
PROBLEM RAE-TRANS-1024 N63-15435 12-29	EFFECTS OF END PLATES ON THREE-DIMENSIONAL SEPARATED FLOW AT ENDS OF CYLINDRICAL MODELS
A-1	004

HREE-17-23

ATION 17-29 ER

17-29

19-29 L 20-29

MICAL 26-29

EH H 21-29

21-23

21-20 CURVI 24-07

04-03

06-21

12-11 RESS 23-11

HOCK HD 09-11

ON 10-11 EE-15-20 LOW -

NAL UNT 16-02

ARC-CP-683	N63-23746 24-11	THROAT NOZZLE TEMPERATURE AND HEAT TRANSFER MEASUREMENTS IN
THREE-FLUID MODEL ANALYSIS OF SKIMMER FOR HIGH BEAM USING THREE-FLUID MODEL	INTENSITY MOLECULAR	INSTRUMENTATION TECHNIQUES, CHAR ANALYSIS
RH-214	N63-12346 05-11	HEAT TRANSFER OF SOLID PROPELLAANT ROCKET ENGINE
THRESHOLD PROPERTIES AND TRANSFORMATION	IS OF SINGLE THRESHOLD	EXHAUST GAS TO HOLYBDENUM NOZZLE THROAT INSERT NOLTR-62-72 N63-16924 14-13
ELEMENT FUNCTIONS RADC-TDR-62-449	N63-10463 01-20	RAMJET ENGINE BYPASS FLOW & THROAT DIFFUSER MOZZLE MODEL TESTS AT MACH 7
LOW-PRESSURE SPALL THRESHOLDS	IN COPPER N63-12212 05-18	AEDC-TOR-63-173 N63-20132 20-23
ELECTRON-HYDROGEN PHASE SHIFT THRESHOLD NASA-TN-D-1720	BELOW INELASTIC	CF BLOOD THROMBOPENIA FOLLOWING ABRUPT ACCELERATION AND IMPACT
COMMUNICATIONS SYSTEMS - THRE FREQUENCY MODULATED RECEIVERS		ARL-TDR-62-30 N63-11793 04-16
MODULATED SIGNALS AIRPORT DISPLACED THRESHOLD F	N63-17935 16-08	STABILITY OF AIRCRAFT WITH AUTOMATIC THROTTLE AND ELEVATOR CONTROL - STUDY BY ANALOG COMPUTER ARC-RGM-3314 N63-15933 13-04
NATION WHERE STATES AND STORY AND A	N63-21918 22-10	TY-IY TOIST-LOS CO NO CO NO CONTRACTOR TO THE STATE
NOISE THRESHOLD OF EXPONENTIA WITH EMPHASIS ON OSCILLATING RADC-TOR-63-330		SA MICROTHRUST CF PROPULSION JET-FLAP THRUST RECOVERY
LOWER THRESHOLD OF STIMULATED	EMISSION FROM	SUDAER-136 N63-10314 01-03
GALLIUM ARSENIDE SEMICONDUCTO	R MASERS N63-22258 23-25	THRUST FROM PARTLY IONIZED MONATONIC GASES N63-10514 01-27
CONVENTIONAL AND FEEDBACK FRE		THRUST DEDUCTION DUE TO A PROPELLER BEHIND A
Marie Andrews (1936) and particular (19	N63-23575 24-09	DTMB-1603 N63-10597 02-11
THRESHOLD FEEDBACKS USED TO S INTERFERENCES IN HIGH FREQUEN RECEIVING INSTALLATION	SUPPRESS PULSE	PLASMA-ARC SPRAYED RADIATION-COOLED THRUST CHAMBER OF MOLYBDENUM POMDER N63-10965 02-17
FTD-TT-63-447/182 THRESHOLD DETECTOR	N63-23643 24-09	INJECTION TECHNIQUES FOR FLUORINE, OXYGEN, AND HEPTANE IN 200-POUND THRUST ROCKET ENGINE NACA-RH-E56J11 06-26
THRESHOLD DETECTORS FOR PENET NEUTRONS IN WATER EUR-107.F	RATION OF FAST	THRUST MODULATION TECHNIQUES - COLD FLOW TESTS OF THREE VARIABLE-THROAT-AREA CONVERGENT-DIVERGENT
THRESHOLD LOGIC	V1-Ca-92969 2.61	NOZZLES NASA-TM-X-42 N63-12550 06-02
THRESHOLD LOGIC IN ARTIFICIAL NETS AND GEOMETRIC SYNTHESIS SYNTHESIS		THRUST CHARACTERISTICS AND PRESSURE DISTRIBUTION OF CONVERGENT-DIVERGENT NOZZLES
AFCRL-63-6	N63-13816 09-20	NASA-TH-X-83 N63-12554 06-02
CONTROLLED THRESHOLD DEVICES,	M49-14044 14-00	WIND TUNNEL TESTING OF HELICOPTER ROTOR OPERATING AT EXTREME THRUST COEFFICIENTS AND HIGH-TIP-SPEED RATIOS NOS-12895 07-03
THRESHOLD LOGIC AND RELIABILI	ENGRECHHIT YOUR	FLUID AMPLIFICATION SYMPOSIUM - BISTABLE ELEMENT.
AFCRL-63-185		TWO-DIMENSIONAL JETS, FLOW VISUALIZATION, PROPORTIONAL CONTROL, ROCKET THRUST VECTORING N63-13380 D8-11
INLETS WITH THROAT AND COME R A THO-DIMENSIONAL VARIABLE GE NASA-MEMO-2-6-59E		ROCKET THRUST VECTORING - FLUID AMPLIFIER NO3-13387 08-11
PERFORMANCE OF SUPERSONIC RAP		OBTAINING NOZZLES OF MAXIMUM THRUST FOR MHICH AN
MITH RAM-SCOOP THROAT BLEED A BOUNDARY LAYER REMOVAL AT LOW NACA-RM-E56126	ND VARYING FUSELAGE SUPERSONIC SPEEDS N63-12522 06-02	ISOPERIMETRIC COMDITION IS IMPOSED N63-13835 09-20
MATHEMATICAL ANALYSIS OF THEF EXPANSION OF THROAT SECTIONS	MAL STRESS, SHOCK AND	ALLOY STRUCTURES FOR HEAT EXCHANGER MATERIAL OF LIQUID PROPELLANT THRUST CHAMBERS RR-TR-62-7
WIND TUNNEL	CALLBOARD TANKE TO SERVICE TO SER	DEVELOPMENT OF PERISCOPE FOR VISUAL OBSERVATION
INTERNAL PROPERCYON INVESTOR	THE THROAT BLEED-DEE	AND ANALYSIS OF THRUST CHAMBER COMBUSTION NA3-17001 15-15
AT HYPERSONIC FLOW	N63-18045 16-02	OPTIMIZING VERTICAL ROCKET THRUST AT LARGE JET
MATERIALS PROBLEM FOR THROAT ENERGY SOLID PROPELLANT ROCKE	INSERTS OF HIGH	BRL-1194 N63-17441 15-20
IDA-TR-62-19	N63-19272 18-26	TWO-DIMENSIONAL JET FLAPS - THRUST - ANGLE OF
TRANSPIRATION COOLING IN THRO	DAT REGION OF NOZZLE	UT1A-90 N63-17600 16-03
RTD-TDR-63-1036	N63-22380 23-02	SELECTION OF THRUST CHAMBER COOLING TECHNIQUE FOR LIQUID PROPELLED SPACECRAFT ROCKET ENGINES AIAA PAPER-63-241

THRUST AND IMPULSE REQUIREMENTS	FOR SPACECR	AFT	MASA-TH-X-416	N63-13905	09-27
ATTITUDE CONTROL FOR INTERPLANET MISSIONS AIAA PAPER-63-237			FLUID INJECTION & THRUST VECTOR (ROCKETS - PERFORMANCE PREDICTION		
ABLATIVE MATERIALS FOR THRUST CH	AMBERS - DE	SIGN,	LIQUID INJECTANTS	N63-17100	15-20
TESTING AND FABRICATION BSD-TDR-63-118	N63-18184	16-27	OPTINUM ORBITAL TRANSFER USING S	DLAR RADIATI	ON-
MATHEMATICAL MODELS FOR DESIGN O			PRESSURE THRUSTING DEVICE R63SD30	N63-17766	16-29
NOZZLE AND PREDICTION OF THRUST ISENTROPIC FLOW USING IBM 1401 F NASA-CR-50411		RAMS	CONTROL OF LARGE LAUNCH VEHICLE I THRUST VECTORING IN PRESENCE OF I NASA-TN-D-1951		
OPTIMIZATION OF SPACE VEHICLE TH			BACA-DE-K-MERTAL		138
PRESPECIFIED THRUST DIRECTIONS - AIAA PAPER 63-420	M63-20317	20-29	MEASURING EQUIPMENT AND REPRESENT VECTOR FOR JET DEFLECTION MODEL TO DFL-207		1,9178.30
COOLING LIQUID PROPELLANT ROCKET CHAMBERS - DATA & BIBLIOGRAPHY			THRUST VECTOR CONTROL BY VOLATILE	E LIQUID INJ	ECTION
NASA-CR-50959	N63-21074		DRAG COEFFICIENT FROM VAPORIZED .	JET	
PYROLYTIC REFRACTORY LIQUID PROP CHAMBER DEVELOPMENT	ELLANT THRU	ST	NASA-CR-51013	N63-23046	24-26
NASA-CR-51521	N63-22159		THRUST WEIGHT RATIO VELOCITY AND ACCELERATION PROFILE		
LUNAR ESCAPE BY SINGLE-STAGE ROC THRUST	KET OF CONS	TANT	USING ADVANCED TRACKS ORA-63-1	N63-13417	08-10
NASA-TH-X-50816	N63-22173	23-29	OPTIMUM THRUST TO WEIGHT RATIO FO	5-700-63-338	2048
ACHIEVING NOISE SUPPRESSION & HI PERFORMANCE WITH PLUG-TYPE EXHAU SUPERSONIC TRANSPORTS		FOR 24-27	TRANSFER - CIRCULAR TO ELLIPTICAL NASA-TH-X-50279	LORBIT	18-29
THRUST AUGMENTATION			THRUSTOR CF PROPELLANT ACTUATED DEVICE		
COMBINED COMPRESSOR COOLANT INJE AFTERBURNING FOR TURBOJET ENGINE	CTION AND THRUST		ION PROPULSION - THRUSTOR, ION SI CONTROL, POWER CONDITIONING AND I	PERFORMANCE	TESTS
AUGMENTATION NACA-RM-E54G08	N63-12531	06-27		N63-11264	
OBTAINING THRUST AUGMENTATION IN USING GAS DYNAMIC PRINCIPLES FOR	TURBOJET E		ELECTRIC PROPULSION FOR SPACEGRAM NASA-SP-22	N63-11512	
INPUT RAE-TRANS-1031	N63-18355	17-11	PROPELLANT ACTUATED DEVICES - THE INITIATORS, CATAPULTS, PROPELLAN		
A STEEL		***	THE REAL PRINCIPLES OF SALES		06-27
SUBSONIC AIR-AIR EJECTORS AND JE AUGMENTORS	MIS 20010	19-11	HEAVY-PARTICLE ELECTROSTATIC THRE	USTORS - NAS	A
THRUST COMPENSATOR ANALOG COMPUTER TECHNIQUES IN TH	RUST COMPENS	SATION	IAS PAPER-63-19	N63-12886	07-27
METHODS AEDC-TDR-63-85		19-27	NASA PROGRAM FOR ELECTRIC PROPUL: HEATEC HYDROGEN THRUSTOR	N63-13670	08-26
THRUST CONTROL			NUMERICAL ANALYSIS OF ION SOURCE		SHALLS
PRACTICABILITY OF REDUCING AIRCR LANDING SPEEDS USING JET FLAPS - FLOW VISUALIZATION, AND WAKE PRE	THRUST CONT		THRUSTOR NASA-TN-D-1665	N63-15767	13-27
SUDAER-138	N63-13269	07-03	ACCELERATOR GRID SYSTEMS FOR ELECTION THRUSTORS	TRON BOMBAR	ROMENT
THRUST MEASUREMENT THRUST DEDUCTION DUE TO A PROPEL			NASA-TN-D-1411	N63-18653	17-21
HYDROFOIL			HIGH-CURRENT-DENSITY CYLINDRICAL		ROUS
March and the second	M63-10597		TUNGSTEN EMITTER FOR ION THRUSTO		20-21
SIMULATION OF ENGINE THRUST IN W YESTS - MEASURING APPARATUS			EFFECTS OF REGENERATIVE AND RADIA		NG ON
HANSEN SUSPENSION FOR MILLIPOUND MEASUREMENT	THRUST		NASA-TN-D-1738	N63-23676	24-21
ATAA PAPER-63034-63	N63-20343	20-27	PERIODIC TROJAN ORBITS AND THUER	ING THEORY	MACA!
AUXILIARY EJECTOR EFFECTS ON ROCI OIFFUSER PERFORMANCE DURING THRU AEDC-TDR-63-188		22-02	NASA-TN-D-1416	N63-16985	15-21
THRUST PROGRAMMING			MAGNETIC PROPERTIES OF THULIUM - TEMPERATURE ON STRUCTURAL STABIL		
OPTIMAL TRAJECTORY GEOMETRY AND NASA-TH-X-50843	N63-22277	RAMMING 23-22	AND DESCRIPTION OF WARRY SERVICES AND MOTES	N63-21002	21-21
THRUST VECTOR CONTROL			THULIUM-171 ELECTRONIC. NUCLEAR & HYPERFINE	STRUCTURE OF	43.737000
CONTROL IN VISTOL AIRCRAFT	F THRUST VE	CTOR	ERBIUM-171. TERBIUM-161 AND THUL UCRL-10747	1UH-171 N63-19225	18-2
WGL PAPER-29	N63-10027	01-04	THULIUM COMPOUND	スクイモ会会かり最高の指す おおようなアクロテムマグラウ	
ROCKET THRUST VECTORING - FLUID	MPLIFIER N63-13387		HIGH TEMPERATURE HEAT CONTENTS A SESQUIOXIDES OF ERBIUM, HOLMIUM, YTTERBIUM	THULIUM, AT	NO.
COLO-FLOW PERFORMANCE OF THRUST- SECONDARY INJECTION	VECTOR CONTI		BM-RI-6175		06-1

15-20

16-29

19-30

23-15 CTION ND 24-26 SLEDS 08-10

18-29

LANT STS 3-27

3-27

6-27

7-27 NCE-8-26

3-27 ENT 7-27 S 3-27 3N 4-23

-29

-23

-23

-18

SYSTEMS, THUNDERSTOR	OF SMALL-SCALE WEATHER MS AND SEVERE WEATHER PROJECT N63-10691 02-21
	SHEAR ON THUNDERSTORM
BO-JOHNSON PARTE OF THE	11 AC 4M1 - N63-11600 - 04-21
ANALYSIS OF ANTENNA	ON RADIO ASTRONOMICAL SIGNALS- TEMPERATURES DURING
AFCR1 -62-311	N63-12028 05-12
METEOROLOGICAL ASPEC TECHNIQUES FOR USING THUNDERSTORMS	TS OF AIR TRAFFIC CONTROL - RADAR EQUIPMENT TO LOCATE
FTD-TT-62-1679/162	N63-13586 08-21
PENETRATION OF THUND SUPERSONIC SPEEDS -	ERSTORMS BY AIRCRAFT FLYING AT RADAR PHOTOGRAPHS AND GUST S OF 1961 ROUGH RIDER N63-19173 18-21
SUPPRSONIC SPEED - A	ERSTORM BY AIRCRAFT FLYING AT IRCRAFT EQUIPMENT AND PILOT N63-19174 18-04
OF 1961 ROUGH RIDER	D GUST LOADS IN THREE STORMS - PILOT PERFORMANCE N63-19175 18-21
	BACED ON ELECTROMACHETIC
INDUCTION	LE EGILL
DE-DI SPEAI-LAN	VOI 146 HUY X N63-19729 19-21
WAKE DEPRESSION	MAY 4, 1961 - DRY AIR AND 110 - 110 N63-23657 24-21
THYNINE	14 MAY STERED STRANGE STREET WELLSON
THYMIDINE, HEMOGLOBIC INVESTIGATION OF ERY	N, AND ERYTHROPOIETIN USED IN THROPOIESIS IN IRRADIATED MICE N63-23297 24-16
KINETICS OF THE TITAL ELECTRODE REACTION	FILMS OF CAMPHOR AND THYMOL ON NIUM-IV - TITANIUM-III
	17 A42M1 H N63-11782 04-07
CF DISCHARGE TURE	TWO STATES OF THE STATES AND STATES
TUNANTO	
TREATMENT OF THYROLD	ENGAGED IN DIAGNOSIS AND GLAND BY IODINE-131 N63-12392 06-16
PRESSURE AND THYROID	POSURE TO HYPOXIA ON BLOOD FUNCTION OF HYPERTENSIVE
SAM-TOR-63-4	N63-15202 11-16
ROLE OF STOMACH & OTI	HER EXTRA-REMAL ORGANS IN HYROIO UPTAKE - HUMAN NG3-21184 21-16
PHYSIOLOGY THYROXINE CF HORMONE	21.00
	THE AVERAGE AND THE VARIED
TIDE SA ATMOSPHERIC TIDE CF HYDROLOGY SOLAR AND LUNAR TIDE AFCRL-62-1031	S IN THE DRIFT OF THE E-REGION N63-10118 01-29
AN EGENTAL THE THAT BE	INTERIOR OF THE MOON N63-20194 20-29
TIDE AND STORM SURGE	OBSERVATIONS IN CHUKCHI SEA
AN TO SEED OF SEE	RIGID MOON COMPARED TO GROSS
PHYSICAL PROPERTIES OBSERVATIONS	OF MOON FROM TIDAL N63-22050 22-29

THE DRY POLICE OF SOME OF THE PARTY OF A SOURCE OF THE

TILT-WING AIRCRAFT SIMULATION OF TILT-WING AIRCRAF QUALITIES RE-162	
	CALLY CONTROLLED
TILTING DUCTED PROPELLER AUTOMATIC STABILITY AND CONTROL TILTING DUCTED PROPELLER VTOL 1 R-1624-5	SYSTEMS FOR THE SHE
TIME SA REAL TIME SA TRANSIT TIME TIME OPTIMAL TURNING MANEUVER (AIRCRAFT MGL PAPER-22	TO VACUALISMENTO DI MANUEL
TRANSIENT STRUCTURAL PERFORMANG	CE UNDER
FUEL-OPTIMAL CONTROL OF DOUBLE WITH RESPONSE TIME CONSTRAINT MS-770	INTEGRAL PLANT
PRECISION TIME AND FREQUENCY AND TRANSIT AND ANNA SATELLITE PROCESS	PPLICATIONS IN
SPIN RELAXATION-TIME OF LIQUIDS FIELDS RAC-1054	AND THE PARTY OF T
OZONOSPHERE CHANGES BY ROCKET I OZONE RELAXATION TIMES AND OPTI GCA-TR-62-14-6	EXHAUST GASES - ICAL PROPERTIES N63-14038 09-12
REACTOR TECHNOLOGY - REACTOR CO GADOLINIUM SEPTA, SPACE-TIME SY CERAMIC FUEL WATER, TEFLOM, E I WAPO-8T-28	MULLED-IN TUBE
SPACE AND TIME SYNTHESIS BY VAI	RIATION METHOD FOR
FOSTER PROBABILITY THEORY OF MI	
MATHEMATICAL MODELS - OVERDAMP TIME DOMAIN - CIRCUIT AMALYSIS CONTROL SYSTEMS PIBMRI-1131-63	ED PROCESSES IN THE FOR FEEDBACK N63-16592 14-20
FAILURE MECHANISMS - EFFECTS DI TEMPERATURE ON RESISTANCE TO FA	F TIME AND AILURE N63-[687] 14-17
KINETIC APPROACH TO CALCULATION DEPENDENT CONDUCTIVITY AND RELI ELECTRON-PHONON INTERACTIONS	
ATOMIC EXCITATION AND RELAXATE	ON TIME FOR HELIUM
TIME VARIATION OF SOLAR COSMIC HIGH ALTITUDE BALLOON FLIGHTS 1 1960 SOLAR FLARE EVENT	A HER STREET,
CR-65 MICROCALDRIMETRY - MEASUREMENT BY RECORDING HEAT FLOW-RATE AN	OF HEAT OF REACTION
RELAXATION TIME OF POLYETHYLEN POLYETHYLENE TETRASULFIDE ONR-TR-RLT-65	E DISULFIDE AND
TIME SCORE FOR PUSH BUTTON OPE DISTRIBUTION BY STATISTICAL AN PSYCHOLOGICAL ENGINEERING STUD AMRL-TOR-63-29	RATION - MULTIMODAL ALYSIS - W N63-22392 23-14
MAXIMUM RELAXATION TIMES IN	- EXCHANGEMENT LANGUES AT F

POLYTETRAFLUOROETHYLENE ONR-TR-RLT-64 N63-23061 24-19	RESONANCE ABSORPTION CROSS SECTIONS WAPD-TM-333
OCCULTATION OBSERVATIONS IN JAPAN DURING 1955 COMPUTED IN EPHEMERIS TIME N63-23340 24-05	DISTRIBUTION OF MEAN OF SEQUENTIALLY DISPLAYED DISTRIBUTION - THE CHORNEY PROBABLITY M63-17394 15-14
CALCULATION OF FLOW BEHIND A NORMAL SHOCK FRONT FOR FINITE REACTION RATE CHEMISTRY R63SD66 N63-23573 24-11	TIME DEPENDENT LOAD IMPEDANCE TR-364 N63-17713 16-08
IME CONSTANT TIME CONSTANT FOR RADIO INTERFEROMETER N63-11550 04-05	MATERIAL REMOVAL BY EXPLOSIVES - PRESSURE DISTRIBUTION-TIME DEPENDENCY IN DETONATION AREA ADR-07-13-62.1 M63-18098 16-23
STABLE, PHYSICALLY REALIZABLE, LINEAR, TIME CONSTANT SYSTEMS - FOURIER TRANSFORM BEHAVIOR RM-3333-PR 18-09	DECAY - IMPLICATIONS FOR PLANETARY & STELLAR AGES N63-23446 24-29
HUMAN COMPENSATORY TRACKING PERFORMANCE AS A FUNCTION OF PILTER TIME CONSTANT AND CONTROL GAIN N63-23259 24-14	TIME FUNCTION SCHLIEREN PHOTOGRAPHY STUDY OF COMBUSTION OF HYDROGEN-OXYGEN MIXTURE AND VELOCITY VARIATION OF PROPAGATED SHOCK WAVES WITH TIME AS A FUNCTION
ALTERNATE CONCLUSIONS ON TIME VARIATIONS OF INTENSITY IN THE INNER RADIATION ZONE BASED ON EXPLORER VII DATA N63-11577 04-28	M63-12264 05-26 TIME ANALYSIS STUDY BY PHOTOGRAPHY OF COMBUSTION PROCESSES, GAS EXPLOSION, AND WAVE PROPAGATION THE VESSELS OF VARIABLE VOLUME USING HYDROGEN-OXYGEN
TIME VARIATIONS OF POLAR CAP ABSORPTION ASSOCIATED WITH SOLAR COSMIC RAY BOMBARDMENT - RIOMETER INVESTIGATIONS	VESSELS OF VARIABLE VOLUME USING HIGHDREN DATEM NG3-12265 05-26 TIME CORRELATION TECHNIQUE FOR INVESTIGATING TWO
UAG-R127 N63-12198 05-12 TIME LAG OF SPARK FORMATION IN AIR AND IN VACUUM -	CONNECTED NUCLEAR TRANSFORMATIONS - RADIOACTIVE DECAY AROD-2543-8 08-23
SEPARATION N63-13769 08-23	TIME-INDEPENDENT PERTURBATION THEORY BY GAUGE TRANSFORMATIONS N63-14358 10-20
TRANSFER OF TRAINING - LEARNING BEHAVIOR - EFFECT OF TIME DELAY AND TASK SIMILARITY - MEMORY AMRL-TDR-63-22 N63-16339 13-14	DETERMINING TIME-INVARIANT AND TIME-VARIANT OYNAMIC CHARACTERISTICS OF PILOTS
EFFECT OF DELAY TIME AND NUMBER OF DELAYS ON SPECTRA OF RIPPLE-FIRED BLASTS IN QUARRY BLASTING AFCRL-63-296 N63-17633 16-12	NASA-TN-D-1897 N63-15776 13-14 TECHNIQUE FOR DIGITALLY GENERATING RANDOM TIME HISTORIES HAVING ARBITRARILY SHAPED POWER SPECTRA
TIME LAG OF DINES PRESSURE-TUBE AMEMOMETER RSIC-34 N63-19725 19-21	N63-16730 14-20 OPTIMIZATION OF NONLINEAR, TIME-VARYING
ME DEPENDENCY TIME-DEPENDENT AERODYNAMIC FORCES WITH APPLICATION	DETERMINISTIC SYSTEMS R-162 N63-17091 15-20
TO A WING DEFORMING HARMONICALLY ACCORDING TO A GENERAL POLYMONIAL EQUATION N63-10950 02-03	DOPPLER SYSTEMS WITH LINEAR TIME FUNCTIONS - VELOCITY MEASUREMENT - NAVIGATION N63-18109 16-22
FLIGHT CONTROL SYSTEMS, LINEAR TIME VARYING SYSTEM AND VEHICLE EQUATIONS OF MOTION ASD-TDR-62-362 N63-13544 08-20	INPUT WAVEFORMS TO YIELD TIME-LIMITED DRTHOGONAL OUTPUTS AFCRL-62-907 N63-19808 19-09
ELASTO-PLASTIC ANALYSIS OF STRUCTURES UNDER LOAD AND TWO-DIMENSIONAL TEMPERATURE DISTRIBUTIONS -	ROLE OF TIME FACTOR IN RADIATION REACTIONS OF THE CENTRAL NERVOUS SYSTEM - SPACE BIOLOGY
TIME DEPENDENT ANALYSIS ASD-TR-61-667, VOL. III N63-14602 10-33 LONG SPARK VOLT-SECOND CHARACTERISTICS	TIME AND TEMPERATURE EFFECT OF HEATING ALUMINUM
N63-14911 11-09	A053 N63-21868 22-16
TIME DEPENDENCY OF VARIATION OF NEUTRAL PARTICLE DENSITY IN MODEL C-STELLARATOR DISCHARGES MATT-161 MG3-14998 11-24	EFFECT OF TIME AND TEMPERATURE UPON COMPRESSIVE STRENGTH OF CASTABLE EDGING MO3-21883 22-17
LIQUID HELIUM TEMPERATURE AND RISE TIME DEPENDENCE OF ELECTRIC BREAKDOWN STRENGTH OF ALKALI HALIDE CRYSTALS N63-15186 11-25	POWER RADIATION FROM ALTERNATING CURRENT ARC TIME AVERAGE AND TIME VARYING MEASUREMENT N63-23485 24-13
ANALYSIS OF FLUID DYNAMIC MODEL FOR OBTAINING TIME DEPENDENT THEORY FOR EROSIVE BURNING OF SOLID PROPELLANTS - COMBUSTION INSTABILITY N63-15591 12-26	LIAPUNOV NETHOD APPLIED TO CONTROL DESIGN FOR A CLASS OF NONLINEAR TIME VARYING PROCESSES NASA-CR-52239 N63-23650 24-01
SMALL-TIME BEHAVIOR OF UNSTEADY CAVITY FLOW - TIME DEPENDENT PERTURBATIONS N63-15699 12-11	TIME OPTIMAL CONTROL UNIQUENESS OF TIME-OPTIMAL CONTROL FOR LINEAR PROCESSES N63-10413 01-26
ENERGY AND TIME DEPENDENCE OF DELAYED GAMMA RAYS	SWITCHING CRITERION FOR TIME-OPTIMAL CONTROL No.3-10414 01-2
FROM NEUTRON INDUCED FISSION	105-10414 02-11
	APPLICATION OF TIME OPTIMAL CONTROL TO A FLEXIBLE LAUNCH VEHICLE - PITCH CONTROLLER ARS PAPER-2694-62 03-31

-23 YED -14 -08

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OF -26

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MS-703 34 4432 00 40422444 N63-11422 03-32	TR-1130 16-17
TIME-OPTIMAL CONTROL THEORY APPLIED TO LAUNCH VEHICLE PITCH AND ATTITUDE CONTROL NASA-TH-D-1895 17 00 N63-15775 13-30	TIMING APPARATUS TEMPERATURE STABILIZED ORDNANCE BINARY TIMER PA-TM-1017 N63-11610 04-15
ADAPTIVE STATE VECTOR CONTROL - THEORY OF TIME OPTIMAL CONTROL OF LINEAR SYSTEMS HH-MPG-1529-TRA	ADDRESSING SEQUENCE FOR ELECTRONIC MEMORY IN BINARY COMPUTER RECEIVING RHYTHMIC INPUT FROM CHRONONETER N63-12684 06-09
TIME OPTIMAL CONTROL LAW FOR LUNAR ORBITAL RENDEZVOUS PROBLEM BY PONTRYAGIN MAXIMUM PRINCIPLE AIAA PAPER-63-361 M63-18795 18-20	DATA PROCESSING SYSTEM IMPROVEMENT - DATA RECOVERY, DATA STORAGE, AND REAL-TIME CLOCK M63-15815 13-20
MECHANIZING RELAY CONTROLLERS USING BOOLEAN INPUTS TO CONTROL MAPPING LOGIC - ADAPTIVE STATE VECTOR CONTROL TIME-OPTIMAL REGULATION	NIMBUS SATELLITE - INTEGRATED COMMAND AND CLOCK SUBSYSTEM . N63-18615 17-30
MASA-CR-50274 V 375 JAPAN 3460 M63-21069 1 21-20	LOW TEMPERATURE HEAT CAPACITY OF TIM AND INDIUM UCRL-10426 M63-11796 04-23
APPLICATION OF TIME OPTIMAL CONTROL TO DESIGN OF PITCH-ATTITUDE CONTROLLER FOR A FLEXIBLE LAUNCH VEHICLE MASA-CR-52287 M63-23802 24-06	SUPERCONDUCTIVITY IN METALS AND ALLOYS - KAPITZA RESISTANCE MEASUREMENTS IN TIM AND INDIUM, DN TRANSITION CHANGE, AND SAPPHIRE INSULATOR ASD-TOR-62-1111
TIME RESPONSE TIME-RESPONSE OF TRANSMISSION-TYPE DYNODE USING POTASSIUM CHLORIDE FOR MIGH SPEED COUNTING N63-13592 08-23	QUANTUM MECHANICS - CALCULATION OF ISOMER RATIOS, PARTICLE EMISSION AND SPIN DISTRIBUTION IN TIN AND INDIUM
PREDICTION OF VELOCITY REQUIREMENTS FOR MINIMUM TIME RESPONSE ABORT TRAJECTORIES FOR MIDCOURSE GUIDANCE OF LUNAR FLIGHT NASA-TN-D-1655 N63-15052 11-29	EMISSION SPECTRA OF IRRADIATED FOILS OF COPPER, GERMANIUM, SILVER, TIN AND ANTIMONY AS FUNCTION OF MAYELENGTH AND ELECTRON ENERGY ORNI-3450 18-25
TIME RESPONSE OF LOWER LONGSPHERE TO PULSE OF	TIN ALLOY DESIGN OF PLANTACT OF A PARTYCE OF THE PARTYCE OF
IONIZATION N63-15948 13-12	METAL FIBER REINFORCED SOLDERING TAPE AND BEARINGS OF LEAD-TIN ALLOYS ARF-8765-25 H63-12801 D6-18
TIME RESOLUTION CHARACTERISTICS OF PHOTOMULTIPLIER AID-T-63-112 N63-22887 23-23	COMPOUNDS AND ALLOYS OF MACHESIUM. TIN, COPPER.
TIME SCALE SA HELMHOLTZ-KELVIN TIME SCALE	THERNOELECTRIC POWER GENERATION TCREC-TR-62-112 N63-13507 08-25
SHOCK WAVE PROPAGATION IN SOLIDS - MEASUREMENT OF TIME SCALE OF UNSTEADY MOTIONS INITIATED IN METAL SPHERICAL SHELLS BY BLAST IN SHELL INTERIOR N63-16315 13-23	THERMOCONDUCTIVITY OF DILUTE COPPER AND COPPER-TIN ALLOYS AROD-1954-10 N63-16792 14-13
TIME SERIES FACTOR ANALYSIS IN STATISTICAL ANALYSIS DF HULTIPLE TIME SERIES SAM-TOR-62-134 N63-12331 05-20	MILD STEEL FIBER REINFORCED LEAD-TIN ALLOYS FOR PRODUCTION OF SOLDERING TAPE AND STRUCTURAL BEARINGS ARF-8765-28 MARCH M
COMBINATION OF POPULATION SAMPLING WITH TIME SERIES ANALYSIS TO DEVELOP A FINITE POPULATION THEORY	TIN COMPOUND THERMOCHEMISTRY - COMBUSTION HEATS OF TETRAPHENYL-TIN AND TETRAETHYL-GERMANIUM
AROD-2934-9 N63-17385 15-20	TO-81 W BORNEY TO THE PHOTOGRAPHIC TRACKING-UP-PACIFIC
POWER SPECTRA OF TIME SERIES FOR ESTIMATING NOISE SPECTRA SAD-110 N62-17449 15-08	CAYSTALLIZATION OF THE INTERNETACLIC COMPOUND OF NIOBIUM AND TIN IN 3-TO-1 RATIO - USE IN SUPERCONDUCTORS
UNEQUAL PROBABILITY SAMPLING THEORY AND TIME	R-170 N63-19366 18-25
SERIES ASPECTS OF PANEL SURVEYS OF FINITE POPULATIONS AROO-2934-13 N63-19086 18-20	VERY LOW FREQUENCY INFRARED SPECTROSCOPY ON TIN HALIDES
TIME SHARING DATA ACQUISITION AND SYSTEM CONTROL THROUGH TIME SHARING OF MIXED INPUT SUDAER-147 N63-17035 15-09	TIM SULFIDE THERMODYNAMIC STUDY OF TIM AND LEAD SULFIDES WITH MASS SPECTROMETER — VAPORIZATION OF ALLOYS AND COMPOUNDS AT HIGH TEMPERATURES
TIRE SIGNAL	TIP
CIACUITRY FOR TRANSHITTING ULTRASTABLE TIME OR FREQUENCY SIGNALS FROM OSCILLATORS TO MOVING AIRCRAFT & SPACECRAFT - DOPPLER SHIFT ELIMINATION AFCAL-63-93 N63-16281 13-09	QUALITATIVE EVALUATION OF EFFECT OF HELICOPTER ROTOR-BLADE TIP VORTEX ON BLADE AIALOADS NASA-TN-0-1637 NASA-16160 13-03
TIME SIGNAL SYNCHRONIZATION AND FREQUENCY STANDARD FOR AUSTRALIAN MISSILE RANGE N63-17643 16-10	AT EXTREME THRUST COEFFICIENTS AND HIGH-TIP-SPEED AAT EXTREME THRUST COEFFICIENTS AND HIGH-TIP-SPEED AATIOS 163-12899 07-03
TIMING SA GLOBAL TIMING PRELIMINARY PLAN FOR GLOBAL TIMING SYNCHRONIZATION RESOURCE RESOURCE RESULTS OF THE PROPERTY OF THE PR	SUPERSONIC WIND TUNNEL TESTING - SCOUT MEMICLE FIN LOAD AND TIP CONTROL HINGE NOMENTS NASA-TH-X-239 N63-17444 15-02
TORQUE REGULATOR FOR TIMING MOVEMENTS	TIRE IMPACT TESTS ON AIRPORT RUNNAY LIGHTS

TIROS SATELLITE PICTURES - GRID POINTS FOR COMPUTER COMPUTATION MSI-11 SEVERE MEATHER PROJECT - OBSERVATIONS BY RADAR, RADIOSONDE, SFERICS, AIRCRAFT AND TIROS SATELLITE - ROUGH RIDER PROJECT GUIDE TO CLOUD PHOTOGRAPHS INTERPRETATION FROM TIROS WIDE-AMAGE PICTURES AFCRL-62-680, SUPPL. I MEATHER SATELLITE SYSTEM DESIGN - JET STREAMS, MEATHER FORECASTING, CLOUD PHOTOGRAPHS - TIROS SATELLITE DEEM TROPICAL CYCLOMES AFCRL-63-604 FUJITA NETHOD FOR TIROS SATELLITE PHOTOGRAPH RECTIFICATION AFCRL-63-607 TERRAIN AMALYSIS OF THE UNITED STATES SURFACE FEATURES AS VIEWED BY TIROS MASA-RL-0-4-63 TIROS AVELUATE SYSTEM SELECTION FROM MIGHT SYNOPTIC RECORDING MASA-RD-183 19-21 THOS A NIHBUS RETEOROLOGICAL SATELLITE SYSTEMS - DATA ACQUISITION & RECORDING MASA-RL-0-4-63 TIROS AVELUATE PHOTOGRAPH MIGHT SYNOPTIC RETEOROLOGICAL SATELLITE SYSTEMS - DATA ACQUISITION & RECORDING MASA-RD-183 22-12 THIROS I SATELLITE CORRELATION OF TIROS I CLOUD DOSERVATIONS OF PRECEPTIFATION MG3-17090 22-21 TIROS I SATELLITE CORRELATION OF TIROS I CLOUD DOSERVATIONS NOB- SYNOPTIC RECORDING NOB- MG3-21990 22-21 TIROS I SATELLITE CORRELATION OF TIROS I CLOUD DOSERVATIONS OF PRECEPTIFATION MG3-2177 TIROS I SATELLITE CORRELATION OF TIROS I CLOUD DOSERVATIONS OF PRECEPTIFATION MG3-2177 TIROS I SATELLITE CORRELATION OF TIROS I CLOUD DOSERVATIONS OF PRECEPTIFATION MG3-2177 TIROS I SATELLITE CORRELATION OF TIROS I CLOUD DOSERVATIONS OF PRECEPTIFATION TIROS I SATELLITE CORRELATION OF TIROS I CLOUD DOSERVATIONS OF PRECEPTIFATION TIROS I SATELLITE CORRELATION OF TIROS I CLOUD DOSERVATIONS OF PRECEPTIFATION TIROS I SATELLITE CORRELATION OF TIROS I CLOUD DOSERVATIONS OF PRECEPTIFATION TIROS I SATELLITE CORRELATION OF TIROS I CLOUD DOSERVATIONS OF PRECEPTIFATION TIROS I SATELLITE CATALLOG OF SATELLITE CATALLOG OF SATELLITE CALCUME MO3-1807. TIROS VISITEM CHAPTS TIROS VISITEM CALCUME MASS-1807. TIROS VISITEM CALCUME MASS-180			
SPACE APPLICATIONS - TINOS, NITHBUS, AND REMOS METEOROLOGICAL SATELLITES FOR VERTHER FORCASTING, NITHBUS AND TITOS SATELLITES FOR VERTHER FORCASTING, NITHBUS AND TITOS SATELLITES MOSTILES FOR TIROS AND INSERT REASON FOR THOSO ASCI-LO LOPPARISON OF AIMOSPHERIC VERTICAL NOTION CALCULATIONS THICLIOTING TITOS COLOUD DESENVATIONS ASCI-LO COMPARISON OF AIMOSPHERIC VERTICAL NOTION CALCULATIONS THICLIOTING TITOS COLOUD DESENVATIONS ASCILLED-1042 MOSTILES FOR TIROS SATELLITE AND AIMOSPHERIC VERTICAL NOTION CALCULATIONS THICLION TO TIROS COLOUD DESENVATIONS ASCILLED-1042 MOSTILES FOR THE SATELLITE OF THE RECORDER FOR TIROS SATELLITE AMALYSIS APERL-TO-1242 MOSTILES FOR THOSO SATELLITES MOSTILES FOR THOSO SATELLITE OF THE PROPERTY OF THE PROP			TIROS II - TRANSMISSION OF USEFUL METEOROLOGICAL
METERORADICICAL SATELLITES FOR VEATHER FORCASTING. MINRUS AND TIROS SATELLITES MOSTINGS PLAYER SURFACE TEMPERATURE DETERNIATIONS PROM TIROS ANDIORETER RESUREMENTS MOSTINGS ANDIORETER PROPERTY MOSTINGS MOSTINGS ANDIORETER PROPERTY MOSTINGS MOSTINGS AND THE PROPERTY MOSTINGS MOSTINGS AND THE PROPERTY MOSTINGS MOSTINGS AND TIROS SATELLITES MOSTINGS AND TIROS ATTELLITES MOSTINGS AND TIROS ANTELLITES MOSTINGS AND TIROS ANTELLITE AND TIROS AND TI			TIROS II SATELLITE
INFRARED FLUX & SURFACE TEMPERATURE DETERMINATIONS REGION TIROS ADDICHTER RESURRENETS RS-1-109 RS-12891 04-21 COMPARISON OF ATMOSPHERIC VERTICAL MOTION CALCULATIONS INCLUDING TIROS CLOUD OBSERVATIONS AFCRI-92-1094 RS-11925 05-21 ENDLESS-LOOP RACHELIC TAPE RECORDER FOR TIROS SAFELLITE DATA - MEATHER REPROSE FOR TIROS TARGET PROCESSING OF TIROS NETERORICAGE ARACHIST DATA - MEATHER REPROSE PROTECTS RS-100-243 AFGRI-93-400 RS-10393 16-1025 13-21 AFGRI-108-3-400 RS-10393 16-1025 13-21 PRECEDED FOR TIROS SATELLITE RS-108-109-109-109-109-109-109-109-109-109-109			INTERPRETATION AND HEAT BALANCE DETERMINATION AFCRL-63-247 N63-14399 10-13
APECIA-2-1094 APECIA-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2	FROM TIROS RADIONETER MEAS	UREMENTS	STUDY OF TERRESTRIAL RADIATION MEASURED BY TIROS II METEOROLOGICAL SATELLITE - ATMOSPHERIC
ENDLESS—LOOP MAGNETIC TAPE RECORDER FOR TIROS SATELLITE NASA—TH—O—1542 M63—1309Y 07-08 AUTOMATIC PROCESSING OF TIROS METEOROLOGICAL SATELLITE DATA — WEATHER MAPPING BY PHOTOGRAPH AMALYSIS APECHA-59-403 M63—16255 13-21 CLDUD COVER RESEARCH DATA — VISUAL DESERVATIONS, NADAM RECORDS, PHOTOGRAPHS FROM WHOLE—SEY CAMERAS, D-2 AREAGHT AND TIROS SATELLITE M64—39-400 M64—39-400 SPECIFAL EMITIANCE OF THERMISTOR DETECTORS OF M61—103, SUPPL. TIROS SATELLITE FOR ALDIOMETERS ON TIROS SATELLITE M63—17939 SPECIFAL EMITIANCE OF THERMISTOR DETECTORS OF M61—103, SUPPL. TIROS SATELLITE M63—17939 SPECIFAL EMITIANCE OF THERMISTOR DETECTORS OF M63—17939 THIRD STREAM OF MATTER OF THERMISTORY OF THE OPPORTURE M63—17939 THORY OF MATTER OF THE OPPORTURE M63—17939 THORY STREAM OF MATTER OF THE OPPORTURE M63—17939 THORY STREAM OF MATTER OF THE OPPORTUR	CALCULATIONS INCLUDING TIR	DS CLOUD OBSERVATIONS	METEOROLOGICAL ROCKET FIRINGS OVER UNITED STATES DURING WINTER OF 1961 - TIROS II RADIATION DATA
ANSA-TH-O-1542 NO3-1309T 07-08 AUTUMATIC PROCESSING OF TIROS METEOROLOGICAL MOSTLATE PROTECTION OF TIROS ATTELLITE ONTA - WEATHER MAPPING BY PHITTOGRAPH MARK-1513 ARCAL-TOR-69-249 NO3-16255 13-21 AGAIN RECORDS, PHITTOGRAPHS FROM WHILE-SKY CAMERAS, ALCAL-69-400 NO3-16354 14-21 PREFLIGHT TESTING AND ANALYSIS - 7.1 LIVIT PREPARATION OF TIROS SATELLITES NO3-16054 14-21 PREFLIGHT TESTING AND ANALYSIS - 7.1 LIVIT PREPARATION OF TIROS SATELLITES NO3-17046 15-21 TIROS SATELLITE PICTURES - GAID POINTS FOR ROUTOMER'S ON TIROS SATELLITES NO3-17046 15-21 TIROS SATELLITE PICTURES - GAID POINTS FOR COMPUTER COMPUTER OR NO3-10379 16-20 SEVERE WEATHER PROJECT - OBSERVATIONS BY RADAR, RADIOSONOE, SFERICS, AIRCARF AND TIROS NO3-10379 17-21 MEATHER SATELLITE AUGUST PROPERTIAL TO THE AND TIROS SATELLITE OF TIROS WIDE-ANGLE PICTURES NO3-1918 18-32 MEATHER PROFICAL CYCLOME NO3-1918 18-32 TIROS SATELLITE FOR TIROS SATELLITE PHOTOGRAPHS INTERPRETATION FROM TIROS SATELLITE FOR NO3-1918 18-32 TIROS SATELLITE FOR TIROS SATELLITE PHOTOGRAPHS TIROS MO3-1930 19-21 MEATHER PROFICAL CYCLOME NO3-1930 19-21 MEATHER PROFICAL CYCLOME NO3-1930 19-21 TIROS SATELLITE FOR TIROS SATELLITE PHOTOGRAPHS TIROS MO3-1930 19-21 MEATHER PROFICAL CYCLOME NO3-1930 19-21 TIROS SATELLITE FOR TIROS SATELLITE PHOTOGRAPHS TIROS MO3-1930 19-21 TIROS SATELLITE FOR TIROS SATELLITE PHOTOGRAPHS TIROS MO3-1930 19-21 MEATHER PROFICAL CYCLOME NO3-1930 19-21 TIROS SATELLITE PHOTOGRAPHS INTERPRETATION FROM NO3-1930 19-21 TIROS SATELLITE FOR TIROS SATELLITE SYSTEMS TO A MO3-1930 19-21 TIROS SATELLITE FOR TIROS SATELLITE SYSTEMS TO A MO3-1930 19-21 TIROS SATELLITE PHOTOGRAPHS TIROS MO3-1930 19-21 TIROS SATELLITE FOR TIROS SATELLITE SATELLITE PHOTOGRAPHS TIROS MO3-1930 19-21 TIROS SATELLITE FOR TIROS SATELLITE MO3-1930 19-21 TIROS SATELLITE FOR TIROS MO3-1930 19-21 MEATHER SATELLITE FOR TIROS MO3-1930 19-21 TIROS SATELLITE FOR TIROS MO3-1930 19-21 TIROS SATELLITE PHOTOGRAPHS TIROS MO3-1930 19-21 TIROS SATELLITE PHOTOGRAPHS TIROS MO3-1930 19-21 TIRO		RECORDER FOR TIROS	WEITA WEST IMMITTO-BMIT SERMES
AUTOMATIC PROCESSING OF TIROS METEOROLOGICAL SATELLITE DATA - WASHING PROTOGRAPH ANALYSIS AFELLITE AND ARCAL-TOR-63-243 N63-16265 13-21 CLOUD COVER RESEARCH DATA - VISUAL OBSERVATIONS, RADAM RECORDS, PHOTOGRAPHS FROM WHOLE-SYC CAMERAS, U-2 AIRCRAFT AND TIROS SATELLITES N63-16454 14-21 PREPLIGHT TESTING AND ANALYSIS - FLIGHT PREPORDIAGNEE EVALUATION OF TIROS SATELLITES N63-17031 15-32 SPECIFIAL EMITTANCE OF THERMISTOR DETECTORS OF RADIOMETERS ON TIROS SATELLITES N63-17031 15-32 NS-114 SECREPT OF RADIOMETERS ON TIROS SATELLITES N63-17046 15-21 TIROS SATELLITE PICTURES - GRID POINTS FOR COMPUTER COMPUTATION NS-17579 16-20 SEVERE MEATHER PROJECT - OBSERVATIONS BY RADAR, RADIOSONOE, SFERICS, AIRCRAFT AND TIROS SATELLITE AND RIBORATE PROJECT - OBSERVATIONS BY RADAR, RADIOSONOE, SFERICS, AIRCRAFT AND TIROS SATELLITE - ROUGH RIDER PROJECT - OBSERVATIONS BY RADAR, RADIOSONOE, SFERICS, AIRCRAFT AND TIROS SATELLITE - ROUGH RIDER PROJECT - OBSERVATIONS BY RADAR, RADIOSONOE, SFERICS, AIRCRAFT AND TIROS SATELLITE - ROUGH RIDER PROJECT - OBSERVATIONS BY RADAR, RADIOSONOE, SFERICS, AIRCRAFT AND TIROS SATELLITE - ROUGH RIDER PROJECT - OBSERVATIONS BY RADAR, RADIOSONOE, SFERICS, AIRCRAFT AND TIROS SATELLITE - ROUGH RIDER PROJECT - OBSERVATIONS BY RADAR, RADIOSONOE, SFERICS, AIRCRAFT AND TIROS SATELLITE - ROUGH RIDER PROJECT - OBSERVATIONS BY RADAR, RADIOSONOE, SFERICS, AIRCRAFT AND TIROS SATELLITE - ROUGH RIDER PROJECT - OBSERVATIONS BY RADAR, RADIOSONOE, SFERICS, AIRCRAFT AND TIROS SATELLITE - ROUGH RIDER PROJECT - OBSERVATIONS BY RADAR, RADIOSONOE, SFERICS, AIRCRAFT AND TIROS SATELLITE - ROUGH RIDER PROJECT - OBSERVATIONS BY RADAR, RADIOSONOE, SFERICS, AIRCRAFT AND TIROS SATELLITE - ROUGH RIDER PROJECT - OBSERVATIONS BY RADAR, RADIOSONOE, SFERICS, AIRCRAFT AND TIROS SATELLITE - ROUGH RIDER PROJECT - OBSERVATIONS BY RADAR, RADIOSONOE, SFERICS, AIRCRAFT AND TIROS SATELLITE - ROUGH RIDER PROJECT - TIROS SATELLITE - ROUGH RIDER PROJECT - OBSERVATIONS BY RADAR PROJECT - TIROS SATELLITE OBTOR RADIOSONOE, SFERICS, AIRCRAFT AND TIROS		N63-13097 07-08	TIROS II - TRANSMISSION OF USEFUL METEOROLOGICAL
ACKIL-TOR-63-243 N63-16255 13-21 CLOUD COVER RESEARCH DATA - VISUAL DESERVATIONS, AGAINST TORS, AGAINST THE COURT AND THE CONTROL OF THE CONTROL OF THE COURT AND THE COUR	AUTOMATIC PROCESSING OF TIE SATELLITE DATA - WEATHER M	ROS METEOROLOGICAL APPING BY PHOTOGRAPH	TIROS III SATELLITE
RADAR RECORDS, PHOTOGRAPHS FROM WHOLE-SKY CAMERAS, APCAL-63-400 Nos-16454 14-21 PREFLICHT TESTING AMD ANALYSIS - FLIGHT PERFORMANCE EVALUATION OF TIROS SATELLITE SAME AMALYSIS - FLIGHT PERFORMANCE EVALUATION OF TIROS SATELLITES SPECTRAL EMITTANCE OF THERMISTOR DETECTORS OF RADIOMETERS ON TIROS SATELLITES Nos-1703 15-32 SPECTRAL EMITTANCE OF THERMISTOR DETECTORS OF RADIOMETERS ON TIROS SATELLITE NOs-1746 15-21 TIROS SATELLITE PICTURES - GRID POINTS FOR COMPUTER COMPUTATION NSI-11 SEVERE WEATHER PROJECT - OBSERVATIONS SY RADAR, RADIOSONOE, SPERICS, AIRCRAFT AND TIROS SATELLITE - ROUGH RIDER PROJECT NSSP-14 GUIDE TO CLOUD PHOTOGRAPHS INTERPRETATION FROM TIROS WIDE-ANGLE PICTURES ACCAL-63-809, SUPPL. I MEATHER SATELLITE SYSTEM DESIGN - JET STREAMS, WEATHER FORECASTING, CLOUD PHOTOGRAPHS - TIROS SATELLITE (COUD PHOTOGRAPHS - TIROS VII SATELLITE COUD PHOTOGRAPHS (M63-15975) 13-32 TIROS STRELLITE PHOTOGRAPH (COUD PHOTOGRAPHS - TIROS SATELLITE (COUD PHOTOGRAPHS - TIROS SATELLITE (COUD PHOTOGRAPHS - TIROS VII SATELLITE COUD PHOTOGRAPHS (M63-15975) 13-32 TIROS STRELLITE (M63-1620) M63-16375 12-32 TIROS STRELLITE (M63-1620) M63-1620 M63-16375 12-32 TIROS STRELLITE (M63-1620) M63-16375 12-32 TIROS STRELL	AFCRL-TDR-63-243		SATELLITE IN VIEWING HURRICANE ANNA, 1961
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RECTIFICATION AFCRL—63—670 REGALOR—63—670 REGALOR—62—63 REGALOR—62—63 REGALOR—62—63 REGALOR—62—63 REGALOR—63—67 REGALOR—62—63 REGALOR—63—67 REGALOR—62—63 REGALOR—63—67 REGALOR—62—63 REGALOR—62—63	CONTRACTOR SECURITION AND SECURITION SECURITIONS	N. Maria distribution of the control	A812195
TERRAIN ANALYSIS OF THE UNITED STATES SURFACE FEATURES AS VIEWED BY TIROS ARA-Y-9219-4 TIROS & NIMBUS METEOROLOGICAL SATELLITE SYSTEMS - DATA ACQUISITION & RECORDING NASA-AL-D-4-63 TIROS RADIOMETRY AND ITS UTILIZATION FOR DAY AND NIGHT SYNOPTIC METEOROLOGY NASA-RP-18 THOS TIROS GROUND STATION OPERATIONS - COMMAND AND DATA ACQUISITION STATION /CDA/ N63-21990 TIROS I SATELLITE CORRELATION OF TIROS I CLOUD OBSERVATIONS WITH SYNOPTIC SCALE RADAR OBSERVATIONS OF PRECIPITATION SAM-TDR-62-85 RADIATION DOSE IN TISSUE FROM HIGH-ENERGY PROTONS NO3-15144 11-16 RADIOPROTECTIVE AGENTS - CDRRELATION OF RNA CONTENT AND DEGREE OF RADIORESISTANCE OF CELLS IN VITRO - RADIOBIOLOGY SAM-TOR-63-17 NO3-15085	RECTIFICATION		RIBONUCLEIC ACID EFFECT ON RADIATED HUMAN CELLS IN
FEATURES AS VIEWED BY TIROS ARA-T-9219-4 TIROS & NIHBUS METEOROLOGICAL SATELLITE SYSTEMS - DATA ACQUISITION & RECORDING NASA-AL-D-4-63 TIROS RADIOMETRY AND ITS UTILIZATION FOR DAY NASA-RP-18 THIRD TIROS GROUND STATION OPERATIONS - COMMAND AND DATA ACQUISITION STATION /CDA/ N63-21990 TIROS I SATELLITE CORRELATION OF TIROS I CLOUD OBSERVATIONS WITH SYNOPTIC SCALE RADAR OBSERVATIONS OF PRECIPITATION RADIOPROTECTIVE AGENTS - CDRRELATION OPERALOR NG3-15144 RADIOPROTECTIVE AGENTS - CDRRELATION OPERALOR NG3-15144 RADIOPROTECTIVE AGENTS - CDRRELATION OF RADIORIOGICAL STATION OF RADIORIOM OF RADIOR		ATMENDERS MOT ANDA	
TIROS & NIMBUS METEOROLOGICAL SATELLITE SYSTEMS - DATA ACQUISITION & RECORDING NASA-AL-D-4-63 TIROS RADIOMETRY AND ITS UTILIZATION FOR DAY AND NIGHT SYNOPTIC METEOROLOGY NASA-RP-18 THIRO TIROS GROUND STATION OPERATIONS - COMMAND AND DATA ACQUISITION STATION /CDA/ N63-21990 TIROS I SATELLITE CORRELATION OF TIROS I CLOUD OBSERVATIONS WITH SYNOPTIC SCALE RADAR OBSERVATIONS OF PRECIPITATION TISSUE DISTRIBUTION & EXCRETION OF STATION OF STREET OF CESIUM-137 FOLLOWING INHALATION	FEATURES AS VIEWED BY TIROS	N63-20718 21-12	
NASA-AL-D-4-63 NASA-AL-D-4-63 TIROS RADIOMETRY AND ITS UTILIZATION FOR DAY AND NIGHT SYNOPTIC METEOROLOGY NASA-RP-18 NASA-R	WITH AND SERVICE AND	HITE STREETWINESKY	RADIOPROTECTIVE AGENTS - CORRELATION OF RNA
TIROS RADIOMETRY AND ITS UTILIZATION FOR DAY AND MIGHT SYNOPTIC METEOROLOGY MASA-RP-18 THIRD TIROS GROUND STATION OPERATIONS - COMMAND AND DATA ACQUISITION STATION /CDA/ 1063-21990 22-21 TIROS I SATELLITE CORRELATION OF TIROS I CLOUD OBSERVATIONS WITH SYNOPTIC SCALE RADAR OBSERVATIONS OF PRECIPITATION TISOUE DISTRIBUTION & EXCRETION PATTERN OF CESIUM-137 FOLLOWING INHALATION		N63-21336 21-32	VITRO - RADIOBIOLOGY
MASA-RP-18 MASA-10559 MASA-16035 13-16 MASA-16035 13-16 CHAMICS IN ENZYME ACTIVITIES IN CERTAIN RAT TISSUES TISSUE DISTRIBUTION & EXCRETION PATTERN OF CESIUM-137 FOLLOWING INHALATION			The state of the s
THIRD TIROS GROUND STATION OPERATIONS - COMMAND AND DATA ACQUISITION STATION /CDA/ N63-21990 22-21 TIROS I SATELLITE CORRELATION OF TIROS 1 CLDUD OBSERVATIONS WITH SYMDPTIC SCALE RADAR OBSERVATIONS OF PRECIPITATION TISSUE DISTRIBUTION & EXCRETION PATTERN OF CESIUM-137 FOLLOWING INHALATION			UNSHIELDED, FISSION REACTOR
N63-21990 22-21 CHANGES IN ENZYME ACTIVITIES IN CERTAIN RAT TISSUES 1 SATELLITE CORRELATION OF TIROS I CLOUD OBSERVATIONS WITH SYMOPTIC SCALE RADAR OBSERVATIONS OF PRECIPITATION CESIUM-137 FOLLOWING INHALATION			POINT CONTRACTORS IN CO.
CORRELATION OF TIROS 1 CLOUD OBSERVATIONS WITH SYMDPTIC SCALE RADAR OBSERVATIONS OF PRECIPITATION TISSUE DISTRIBUTION & EXCRETION PATTERN OF SYMDPTIC SCALE RADAR OBSERVATIONS OF PRECIPITATION CESTUM-137 FOLLOWING INHALATION	CARAC-ALL-HOLK ON ALKITOLASED	N63-21990 22-21	CHANGES IN ENZYME ACTIVITIES IN CERTAIN RAT TISSUES N63-17030 15-16
SYNOPTIC SCALE MADAR OBSERVATIONS OF PRECIPITATION CESTUR-137 FULLOWING INHALATION	CORRELATION OF TIROS I CLOU	D OBSERVATIONS WITH	TISSUE DISTRIBUTION & EXCRETION PATTERN OF
	AFCRL-63-223		LF-4 N63-19499 19-16
TEXAS DEW POINT FRONT AND CLOUD PATTERN AS PHOTOGRAPHED BY TIROS I AFCRL-63-246 N63-16397 14-21 TISSUE RESISTANCE ACCOMPANYING ACCLIMATIZATION OF ANIMALS TO MODERATE HYPOXIA UNDER NATURAL CONDITIONS	TEXAS DEW POINT FRONT AND O	NAI!	TISSUE RESISTANCE ACCOMPANYING ACCLIMATIZATION OF ANIMALS TO MODERATE HYPOXIA UNDER NATURAL

NO AL 1-21

0-13 105

TES TA 17-21

AL 21-21

10-21

PDR 19-21

24-20

10-32 12-32 RAPHS 13-32

15-32

G 04-16 PAN, 05-16

08-14 TONS 11-16

S IN 13-16 ED, 13-16 UCED 15-16

19-16 IN OF

JPRS-20749 TISSUE ADSDRPTIVITY CHANGE DURI	2011 - 2124	19-16 DIATION	NONFERROUS METALLURGY - STRUCTURAL CHANGES DURING HARDENING AND RECRYSTALLIZATION OF MOLYBDENUM, COMBUSTIBILITY OF TITANIUM AND ITS ALLOYS JPR5-17306 05-1
JPRS-20713	N63-20431	20-16	COMBUSTIBILITY OF TITANIUM AND ITS ALLOYS
DEVELOPMENT OF HIGH-ALTITUDE TI	SSUE SWELLIN N63-21535		M63-12188 A 05-1
LOCAL & TOTAL CIRCULATORY ALTER DECOMPRESSION, BREATHING OF GAS BOTH - EFFECT ON RATE OF DENITR	MIXTURES OR		REACTION RATE OF TITANIUM AND TITANIUM SUBCHLORIDES IN MOLTEN SODIUM CHLORIDE BM-RI-6162 N63-12406 06-0
SAM-TDR-62-113	N63-21860	22-16	MOLYBOENUM AND TITANIUM SHEET ROLLING N63-13274 07-1
TITAN LAUNCH VEHICLE LAUNCH VEHICLES AND LAUNCH OPER ATLAS-CENTAUR, TITAN, AND SATUR	ATIONS OF AT N N63-11147	03-31	DEFORMABLE ALUMINUM ALLOYS - HOT CRACK FORMATION, QUENCHING, INGOT CASTING, IRON, SILICON, TITAMIUM MANGANESE, BERYLLIUM, AND MAGMESIUM FTO-TT-62-1272/16264 N63-13615 08-
ESTIMATION OF SOUND-INDUCED VIB	MISSILE N63-16078	13-33	MEASUREMENT OF THERMAL DIFFUSIVITY OF MATERIALS A HIGH TEMPERATURES - CERAMICS, IRON, MOLYBDENUM, TITANIUM, ZIRCONIUM OXIDE, AND ALUMINUM OXIDE ASD-TOR-62-24 N63-13636 08-
TITAN II ICBM GEMINI PROJECT - GEMINI SPACECR LAUNCH VEHICLE, HYPERGOLIC FUEL ESCAPE AND RETROROCKET SYSTEMS	. INJECTION		ASD-TOR-62-24 N63-13636 08- DIFFUSION IN TITANIUM AND TITANIUM ALLOYS ARF-2208-16 N63-14056 09-
ESCAPE AND REINGROCKET STOTERS	N63-19423	19-32	A STATE OF THE PARTY OF THE PAR
TOXICOLOGICALLY SIGNIFICANT ENV CONTAMINANTS NEAR TITAN II TEST AMRL-TDR-63-52			TITANIUM TANKAGE DEVELOPMENT - BULKHEAD GORES AN BULKHEAD TOOLING - HONEYCOMB SANDWICH CONSTRUCTI RTD-TOR-63-1023 N63-14619 10-
TITAN III ICBN A DASAN AND ZORACI			MACHINING OF REFRACTORY NATERIALS, HIGH
TITAN III STANDARDIZED SPACE LA	UNCH SYSTEM N63-23207	MUL.	TEMPERATURE ALLOYS, HIGH STRENGTH STEEL, AND TITANIUM AND MOLYBDENUM SHEETS ASD-TR-7-532A/IX/ M63-14886 11-
TITANATE	THE PROPERTY.		PLASTIC DEFORMATION THEORY FOR CEMENTED ALLOYS -
THERMOCONDUCTIVITY AND EXPANSIO CALCIUM AND ZIRCONIUM TITANATES PROTOTYPE RADIAC CALIBRATOR FOR	AND DEVELOP	MENT OF	MATERIALS FOR TUNGSTEN FIBER ROCKET MOZZLE MATRI COPPER-NICKEL, SILICON, ALUMINUM & TITANIUM M63-15411 12-
- 3715881 - 874178 ASSAULT	N63-14264	10-23	TITANIUM FASTENER SYSTEM OF 200,000-PSI TENSILE
THERMOCONDUCTIVITY AND EXPANSIO CALCIUM AND ZIRCONIUM TITANATES			STRENGTH AND TITANIUM BOLTS & LOCKNUTS SPS-730 N63-15515 12-
FERROELECTRICITY AND CHEMICAL B TITANATE MIT-TR-179	ONDING IN BA	ARTUN	EVALUATION OF METAL FORMING TECHNIQUES FOR TITANIUM HELMETS - PROJECTILE PENETRATION RESISTANCE - STRUCTURAL DYNAMICS N63-16615 14-
DELOTE OF STREET, DESIGNATION OF THE PROPERTY OF			THE STOLEN METERS OF SHAREST PROPERTY OF STREET
BREAKDOWN FIELDS AND BULK DIFFU STRONTIUM TITANATE - FERROELECT DIELECTRIC BREAKDOWN	RIC AND NONE	INEAR	EFFECT OF IMPURITIES ON MECHANICAL PROPERTIES OF ELECTROLYTIC TITANIUM BM-RI-5701 N63-17562 16-
RADC-TDR-63-238	N63-19329	18-25	TITANIUM TANKAGE DEVELOPMENT - ENGINEERING -
NUCLEAR RADIATION EFFECT ON BAR ZIRCONIUM TITANATE - PIEZOELECT PA-TR-3045		TITAL	MANUFACTURING - QUALITY CONTROL SID-63-846 N63-18991 18-
MICROWAVE PROPERTIES OF FERROEL CONSTANTS OF STRONTIUM TITANATE	CLD*CVE W/NAME		CHEMICAL ANALYSIS - DETERMINATION OF TRACE AMOUN OF ZIRCONIUM AND TITAMIUM IN TUNGSTEN ASD-TOR-63-358 N63-19041 18-
AFCRL-62-594	N63-21220	21-19	PARAMAGNETIC RESONANCE-ABSORPTION SPECTRUM OF
TITANIUM INFLUENCE OF TEMPERATURE AND PR ON HALL COEFFICIENT AND RESISTE	EFERRED ORIE	ENTATION	TITANIUM ION IN CORUNDUM - ALUMINUM OXIDE CRYSTA AFCRL-73-171 N63-20940 21-
TITANIUN	N63-10424	01-23	LAP SHEAR STRENGTH OF ROLL SEAN WELDED TITANIUM JOINTS
TITANIUM ROCKET MOTOR CASE PMA-2087	N63-11439	03-27	A062 N63-21194 21-
TITANIUM AND TITANIUM ALLOYS	6. 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		DETERMINING STRENGTH OF BUTT WELDED AND LAP WELD TITANIUM JOINTS
EFFECTS OF ADSORBED FILMS OF CA	· 公司中国	1-104	A061 5245 225 H69-21371 22-
KINETICS OF THE TITANIUM-IV - T ELECTRODE REACTION ARL-62-439	N63-11782	04-07	BASIC SHEET STRENGTH OF ROLL-SEAM WELDED TITANTU AND FAILURE DISTANT FROM HEATED WELD AREA A063 N63-21873 22-
TITANIUM PONDER METALLURGY JPRS-17155	AU A. L. (1928 A. 13)	364	TITANIUM REACTIVITY WITH GASEDUS NITROGEN TETROXIDE UNDER SEVERE CONDITIONS OF TENSILE
TITANIUM ROCKET MOTOR CASE DEVE PMA-2106	N63-11988	05-27	NUPTURE 0HIC-HEND-173 N63-22017 23-
PANEL FLUTTER RESULTS FOR FLAT	CARDINA MINI	MATIT	TITAMEUM ALLOY AUTORADIOGRAPHY OF CARBON AND SULFUR IN TITAMEUM
SKIN PANELS AT SUPERSONIC SPEED NASA-TN-D-1600	N63-12004		STEELS N63-10969 02-
		CALIFORNIA CONTRACTOR	

111

11

TITANIUM AND TITANIUM ALLOYS	N63-11579	04-18	LOW CYCLE FATIGUE DATA FOR MULT ANALYSIS - EFFECT OF COLD DRAWI	IAXIAL STRESS	S :
EFFECT OF ADDITION ELEMENTS ON RATE IN ALPHA-BETA AND BETA TI	TANIUM ALLOYS		ON STRENGTH OF STAINLESS STEEL CVC-2-53420/3R411	6 TITANIUM AI N63-15913	LLOY
ASD-TR-62-520	N63-11602	04-18	LOW CYCLE FATIGUE DATA FOR STAI	MI ECC CTEELC	444
TITANIUM POWDER METALLURGY JPRS-17155	N63-11872	04-18	TITANIUM ALLOYS IN MULTIAXIAL S CVC-2-53420/3R436		11.40
		*****			711.00
THERMAL RADIATIVE PROPERTIES OF INCLUDING TITANIUM ALLOYS, STAT SUPERALLOYS, REFRACTORY METALS,	INLESS STEELS	,	ALPHA PHASE PRECIPITATE OF HEAT TITANIUM ALLOY DURING MELTING ASD-TOR-62-534		
DMIC-177, VOL. 1	N63-11915	04-13	THE TOTAL PROPERTY AND THE PROPERTY AND	5 1 1 - 1 - + STW	200
ELECTRON BEAM WELDING - TITANIO	UM ALLOYS - S N63-12105	TEELS 05-17	DEVELOPMENT OF PROCEDURE FOR WE TITANIUM ALLOY - NAVY PROGRAM	N63-16204	- 144
					A1883
NONFERROUS METALLURGY - STRUCTI HARDENING AND RECRYSTALLIZATION COMBUSTIBILITY OF TITANIUM AND JPRS-17306	N OF MOLYBOEN	UM,	FABRICATION METHODS - THERMAL A TESTING OF STAINLESS STEEL - TI HYDROGEN FUEL TANKS FOR ROCKET AFFTC-TR-60-43, VOL. IV	TANIUM LIQUIO	
COMBUSTIBILITY OF TITANIUM AND	ITS ALLOYS		TITANIUM ALLOYS FOR SOLID FUEL	ROCKET MOTOR	CASES
TOUGH, HIGH STRENGTH ALPHA-BETA	N63-12188		PWA-2156 PHASE DIAGRAM RELATIONSHIPS FOR	N63-18144	16-17
ALLOYS AT 240,000 TO 260,000 PS			ZIRCONIUM-OXYGEN SYSTEM ARL-63-104	N63-18794	18-18
WAL-TR-401/303	N63-13128	07-18	ANC 03 104	103 10174	10-10
MECHANICAL PROPERTIES OF HI TI			MATERIAL PROPERTY HANDBOOK - MA TITANIUM ALLOYS FOR STRUCTURAL		AFT
SERIES SPS-797	N63-13410	08-17		11.5-0.011.0	1 4 3
STRESS, CORROSION, AND CRACKING ALLOYS - TITANIUM ALLOY, NICKEL	OF HIGH STR		IN-PILE RADIATION CORROSION EXP ZIRCONIUM, TITANIUM, AND STEEL SULFATE SOLUTIONS AT 280-DEG C	ERIMENTS WITH ALLOYS IN URA	NYL
ALLOTS - ITTANTON ALLOTY NICKEL	N63-13472	08-18	ORNL-3099	N63-19077	10-16
LOW DENSITY TITANIUM-ALUMINUM-A USE AT 1200 TO 1800-DEG F	NIOBIUM ALLOY		STABLE BETA TITANIUM SHEET ALLO WAL-TR-405.2/1		
ASD-TR-61-446	N63-13665	08-19	ROLL FORMING OF REFRACTORY META	S - TENSTIE	CARLES
DIFFUSION IN TITANIUM AND TITAN ARF-2208-16			STRENGTH - MOLYBDENUM TITANIUM	ALLOY	19-18
UPPER CRITICAL FIELD OF NIGHTUN	A-7 TRECONTING A	NO	COLD ROLLING AND AGING EFFECTS	ON SHARP-NOTO	н
NIOBIUM-TITANIUM ALLOYS		AV3-21	PROPERTIES OF BETA TITANIUM SHE	ET ALLOY	
TENSILE STRENGTH AND ELONGATION	PROPERTIES	ne .	OXIDATION RESISTANCE OF ALUMINU	M-NIORIUM-TII	CANEUM
STEEL, NICKEL, ALUMINUM AND TIT LIQUID-NITROGEN AND FLUORINE EN	TANIUM ALLOYS	IN	INTERMETALLIC COMPOUNDS GEMP-218		
NASA-TN-D-1706	N63-14405	10-18	HIGH TEMPERATURE AND STRENGTH R	SERACTORY ALL	ov
MACHINING OF REFRACTORY METALS TANTALUM-TUNGSTEN, MOLYBDENUM-T STEEL	ITANIUM ALLO	YS AND	SHEET MATERIAL OF TITANIUM, NIO ZIRCONIUM METALS		
ASD-TR-7-532A/V/	N63-14882		TITANIUM ALLOY TECHNOLOGY - AER AND MECHANICAL PROPERTIES		
PROPERTIES OF IRON AND TITANIUM		SICAL	ROOM AND ELEVATED THERMAL PROPE	OTIES OF TITE	MTIM
	N63-15064	11-18	MOLYBDENUM ALLOYS		
STABLE BETA TITANIUM ALLOY - ST			The second secon		
STRENGTH, AMENABILITY ROLL FORM WAL-TR-405/2	N63-15073		DECOMPOSITION OF GAMMA PHASE IN ALLOY ASD-TOR-63-325		
STRENGTH OF SPOT WELDING OF TIT	ANTUM ALLOYS	AT		30,7347	
ROOM AND ELEVATED TEMPERATURES NAMC-AML-1319	N63-15402	12-18	RELECTROPLATING ON TITANIUM-ALUM NASA-TM-X-50955	N63-22538	
MECHANICAL PROPERTIES OF TITANI	UM AND ALUMIN	WH .	STABLE BETA-TITANIUM ALLOY - ME	TAL ADDITIONS	S TO
ALLOYS AT CRYOGENIC TEMPERATURE WAL-TR-340.2/1		ATUE	BASE ALLOYS WAL-TR-405/2-2	N63-22722	23-18
STRESS CORROSION CRACKING OF TE	TANLUM ALLOY	AT	BRAZING OF TITANIUM WITH RAPID	HEATING - SOI	DERING
ROOM AND ELEVATED TEMPERATURE ASD-TR-61-713			OF TITANIUM ALLOYS DURING RAPID	HEATING IN	SALT
NOTCH SENSITIVITY OF REFRACTORY	METALS - MI	MIUM.	JPRS-21437	N63-22966	23-18
TUNGSTEN, TANTALUM, MOLYBOENUM,	AND HOLYBOE	IUH-	HIGH-STRENGTH, LIGHTWEIGHT, TIT	ANTUM ALLOY	SOLID
TITANIUM ALLOYS	N63-15689		FUEL ROCKET MOTOR CASE WAL-TR-766.2/1-10	N63-23003	24-18
DETERMINATION OF LOW CYCLE FATI T1-6AL-5V ALLOY, 301 STAINLESS STAINLESS STEEL IN MULTIAXIAL S	STEEL, AND AP		TITANIUM ALLOYS FOR THICK PLATE		24-16
CVC-2-53420/28400	N63-15912	13-33	PROPERTIES OF ARC-MELTED GRAVIT CARBON ALLOY	Y CAST TITAN	LUM

NNING OY 13-33 ND 13-33 VCA 13-14 HICK

16-34 SES 16-17

18-18 AND 18-18 'L 8-18

9-18

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IUM
0-18
M & 1-18
IDNS 2-18
UM2-18
NUM

3-18 3-18 3-18 3-18 10 3-18

SSD-TDR-63-216	N63-23781	24-18	WAL-TR-823.3/1 11990 1995 1995	N63-17022 15-	-18
ADMESIVES FOR CRYOGENIC APPL STAINLESS AND TITANIUM ALLOY NASA-CR-52278	ICATION WITH ALI	UMINUM, 24-19	DETERMINATION OF TRACES OF M SODIUM BY TITRATION LA-2892	TV-11 SECURIOR VECTOR OF	-07
TITANEUM COMPOUND	7.01	11/4/19/19	BINARY COMBINATIONS OF ENERG	- AT-WALPS ENGLASTED MY	
CEMENTED TUNGSTEN CARBIDE WI ADDITIONS NH-RI-6095	TH TITANIUM DIBI	ORIDE 01-18	CONTAINING OXIDIZERS - CONDU OF COMPOUNDS WITH CHLORINE & MRB-2022Q4	CTIMETRIC TITRATIONS FLUORINE IONS	-07
HARDNESS OF TITANIUM-BASE &		ALC: U	TOLERANCE	TO STATE THE	
CERMETS AT NORMAL AND ELEVAT	ED TEMPERATURES	04-18.	SA HUMAN TOLERANCE GUINEA PIG TOLERANCE OF SHOO BLASTS - EFFECTS OF BODY ORI		
DIFFUSIVITY OF TITANIUM CARB CONDUCTIVITY OF TITANIUM NIT APPLICATION	RIDE FOR NOZZLE		OVERPRESSURE DURATION DASA-1312	January January	-16
A1-8058	N63-12299	05-15	TOLERANCE OF GUINEA PIGS TO MOUNTED IN SHALLOW AND DEEP	AIR BLASTS WHEN CHAMBERS ON SHOCK	
REACTIONS OF TITANIUM WITH GOYGEN UNDER SIMULATED SPACE IMPACT SENSITIVITY			TUBE DASA-1334	AND THE PROPERTY AND THE PARTY OF THE PARTY	-16
DMIC-MEMO-163	N63-13071	07-26	FACTORS FOR ONE-SIDED TOLERA VARIABLES SAMPLING PLAN - MA	NCE LINITS AND FOR	ne e
FABRICATION OF TITANIUM DIBON	ET NOZZLE INSERT		DISTRIBUTION FUNCTIONS SCR-607	CONTRACTOR OF STREET	-20
TR-371-9/4 / YAMADIANDEDE AL		W 1/ 3	DEEP HYPOTHERMIA IN RATS - S	TUDIES ON SURVIVAL	AND
MECHANISM OF GETTERING - REAL AND TITANIUM WITH CARBON DIO AFCRL-63-7	KIDE AND NITROGE	EN	TOLERANCE TO CIRCULATORY ARE AAL-TDR-62-43	W43-18078 10-	-16
PYROFIBER, FREE-STANDING, PY		ATE	EFFECT OF SEX, WEIGHT, & AGE OF RATS		CE
PYROCARBIDE S-515	and the second second	09-17	NADC-HA-6313	N63-22426 23-	-16
METHOD FOR DETERMINATION OF	FREE AND TOTAL	0.83 mm 5	EFFECT OF AGING ON G-TOLERAN NADC-MA-6314	NES-22427 23-	-16
TITANIUM CONTENTS IN ZIRCONIC COMPOUNDS ARL-63-13	N63-14624	ALC REAL PROPERTY.	HOMOGRAFT TOLERANCE IN SUBLE	THALLY X-IRRADIATED	
MAGNETIC LOSS IN GARNET FERRI	JMAGNE 13 -	ZYH WAR	USNEDL-TK-668	N63-53180 54	-16
MAGNETOMETER, ELECTRIC & MAGI VANADIUM OXIDES AND TITANIUM AFCRL-62-553	OXIDES	11-23	BREAKING STRENGTH AND HEAT T FIBER - IMPROVED FINISHES FO ASD-TOR-63-802	OR QUARTZ FABRICS	-13
ELECTRON MICROSCOPY OF TITAN	UM CARBIDE CRYS	STALS 11-18	TOOL	TUPSIDE SOMMEN REC	5 4
ISOMORPHIC AND MORPHOTROPIC OXIDES OF TITANIUM DIOXIDE TO ANATASE AND BROOKITE RUTILES	RELATIONSHIPS IN	CPN CTN	TOOLING CF MACHINING	C-4% to \$PPEN LONGER TOPESTOR SHOWNER PROP SHOWNERS	
IMPROVED TITANIUM-ORGANIC CON			STRESS IN DENTAL PATIENTS - SERUM AND U 17-HYDROXYCORTICOSTEROID RESPONSES IN I	SPONSES IN IMPACTION	lag.
IMPROVED TITANIUM-ORGANIC COM	POUNDS FOR USE	AS	ACTUAL STREET ACTUAL STREET	MAKE BUNGSASAN	-16
HYDRAULIC FLUIDS ULTRAVIOLET PHOTOVOLTAIC CONV	NG3-16433 VERSION IN TITAL	14-07	DENTAL LESIONS IN RATS DUE T RADIATION EFFECT ON TEETH USNROL-TR-620		-16
OXIDE	N63-16489	14-25	TOP CAN THE LANGE OF THE PARTY AND	WIST LINE ZALIS	n-tro
ROCKET NOZZLE INSERTS OF TITATION NITRIDE AND BORON NI		14-27	UPPER AND LOWER BOUNDS FOR A OF HEAVY SYMMETRICAL TOP NOLTR-62-131	TABLE TO MAKE A PROPERTY OF THE PARTY OF THE	10N -20
COLLOID ABSORPTION BANDS FOR FLUORIDES AND CESSUM BROWIDE EFFECT ON TITANIUM DIOXIDE EL TID-17912	CALCIUM-SODIUM - PILE IRRADIAT	TON	TOPOGRAPHY SA LUNAR TOPOGRAPHY	MATTERS	
TITANIUM DXYGEN REACTIVITY - SENSITIVITY IN SPACE VEHICLE NASA-TM-X-50209	SHOCK AND IMPAC	18-18	CF SURFACE GEOMETRY CF TERRAIN CONFERENCE OF SIBERIAN TOPOG JPRS-16727		-12
TITANIUM ORGANIC COMPOUNDS FO		IDS	GEODETIC TOPOGRAPHIC WORK IN	THE RESERVE THE PROPERTY OF THE PERSON.	1
(4) C30417641	N63-19889	19-07	JPRS-17175	N63-11842 D4-	-12
THERMAL EXPANSION AND ATOMIC FOR TITANIUM CARBIDE, TITANIC CARBIDE, ZIRCONIUM NITRIDE,	M NITRIDE, ZIRO	N	TERRAIN QUANTIFICATION - SUR TOPOGRAPHY, AND MAPPING AFCRL-63-208	THE STREET	-12
C-17	N63-19922	NA 19	ENLIAN GERMORPHOLOGY, WIND I	TRECTION. AND CLINA	TIC
ARPEROMETRIC TITRATION TO DET OF VANADIUM IN STEELS AND CAS		OUNTS	CHANGE IN NORTH AFRICA AFCAL-63-443	403-16300 14.	-21

OF LIQUID SURFACES	CHIMING TOPO	UKAPHT		NO3-23497	24-
BRL-1196	N63-17761	16-11	TORQUE CF FORCE		1220
TOPOGRAPHIC-ISOSTATIC CORRECTION IN CZECHOSLOVAKIA - ERROR ANALYS	115		CF ROTATION CF TWIST	87513-53-6	
	N63-18756	17-12	TORQUE INDUCED BY MAGNETIC FIELD CYLINDERS, CONES AND CONE FRUSTU		-33
WATER BALANCE IN THE ATMOSPHERE PRECIPITATION CLIMATOLOGY - EFFE			NASA-TR-R-129	N63-12596	06-
	N63-19384	18-21	HULTIRANGE PRECISION TORQUE MEASE R-367	N63-12776	H 06-
TOPOGRAPHY AND GROWTH MECHANISM EPITAXIAL DEPOSITION	UF SILICUN		CALCULATION OF TORQUE REQUIRED TO	SPIN A HI	SSHE
AFCRL-63-308	N63-22833	23-19	TO A PRESCRIBED ROTATIONAL VELOCI	N63-13040	07-
TOPOLOGY REALIZABILITY OF FUNDAMENTAL CUT			TORQUES AND ATTITUDE SENSING IN S		IZED
ORIENTED GRAPHS FOR ELECTRICAL N CIRCUITS AND COMMUNICATIONS NETS	More let all Like		SYNCHRONOUS SATELLITES TORQUE AND ANGULAR VELOCITY INDUC	N63-13301	07-
R-143 TOPOLOGICALLY CONVEX SETS AND FI	N63-14554	10-09	FIELD ON A SPINNING CONDUCTING SA		AGNET
MAPPING	AED POINT IT	HEURY -		403-10141	1199
RIAS-TR-63-8	N63-17124	15-20	TORQUE REGULATOR FOR TIMING MOVEN TR-1130	N63-17910	16-
TOPOLOGICAL TRANSFORMATION TENSO BEHAVIOR AS DIFFERENTIAL OPERATO		r GROUP	PRECESSION TORQUES IN ELECTRICAL	V SUPPORTE	0
AROD-2056-13	N63-18724	17-20	GYROSCOPE	. OUT TORTE	
TORON DEV DE THE MOON SUBEACE	M43-31430	22-20	R-165	N63-18303	17-
TOPOLOGY OF THE MOON SURFACE	N63-21620	22-29	GRAVITY GRADIENT TORQUES ON A SUI	-ORIENTED	SPACE
TOPSIDE PROGRAM			STATION		1000
TOPSIDE SOUNDINGS OF IONOSPHERE NASA-TN-D-1538	N63-13838	09-12	NASA-CR-50785	N63-19851	19-
STRUCTURE OF UPPER IONOSPHERE AS	OBSERVED BY		ANNOTATED BIBLIOGRAPHY ON HYDROK TRANSMISSION, FLUID COUPLINGS, AN		
TOPSIDE SOUNDER SATELLITE, ALOUE RRS/IM-94	TTE N63-19849	19-12	CONVERTERS BIB-4	N63-20050	19-
CALCULATION OF ELECTRON DENSITY	PROFILES - 1	MATA	TORQUE MOTOR		300
CONVERSION OF TOPSIDE RADIO WAVE RECORDS FROM GROUND-BASED IONOSO	REFRACTION	21-12	HYSTERESIS MOTOR - HISTORY AND THE	N63-23171	RQUE 24-
			TORQUER	1-17 (1) WULSE	
CALCULATION OF ELECTRON DENSITY TOPSIDE SOUNDER RECORDS	PROFILES FRO	21-12	MAGNETIC TORQUERS FOR SPACECRAFT ASD-TDR-63-74	N63-14102	ONTRO
NASA FIXED-FREQUENCY TOPSIDE-SOU S-48 - UPPER IONOSPHERE	NDER SATELLI N63-23416	7E 24-12	QUASISTATIC MAGNETIC PROPERTIES (FILM USING AUTOMATIC MAGNETIC TOP NASA-CR-50627		E
TOPSIDE SOUNDER PROGRAM - UPPER	IONOSPHERIC				
SOUNDING NASA-TN-D-1913	N63-23678	24-12	TORSION CF FORCE		
	403 23010	.,	MEASURING INSTRUMENT - TORSIONAL		
TOROID			RECOVERY	N63-10644	02-
THEORY OF FOLDING DEFORMATIONS I STRUCTURES, TOROIDAL SHELLS	N EAPANUABLE	245	CREEP TORSION OF SAE 1020 STEEL E	ARS	
NASA-TN-D-1690	N63-11056	03-34	TEAH-208	N63-10717	03-
STUDY OF THE STATE OF STRESS IN		DAL	RUBBER ELASTICITY OF PRESHOLLEN I	OLYMER NET	HORK
SHELL WITH APPLICATION OF APPLIE ELASTICITY	D THEORY OF		BY TORSION TESTS ONR-TR-RLT-57	N63-12756	06
COA-137	N63-14093	09-33	DYNAMICS OF PROPELLER REMOTE ORIN	VES - BENDI	NG
EQUILIBRIUM OF CURRENT CARRYING		SHA -	VIBRATIONS, TORSIONAL VIBRATIONS		
EXPERIMENT WITH MODEL C-STELLARA MATT-165	TOR N63-15028	11-24	DVL-197	N63-14662	10
			FRACTURE AND FRACTURE MORPHOLOGY	OF GLASS UP	NDER
NATURAL HODE FREQUENCIES AND SLO LIQUID SLOSHING IN TOROIDAL TANK		OM	TENSION, TORSION, AND FLEXURE	N63-15408	12
NASA-TN-D-1709	N63-16988	15-23	BEHAVIOR OF FIBER GLASS REINFORCE	D SYNTHETIC	c
EQUILIBRIUM OF CURRENT CARRYING	TOROIDAL PLA	SMA -	RESINS UNDER TORSIONAL STRESS PER		
VIRIAL THEOREM MATT-191	N63-17481	16-24	DFL-204	N63-16420	14
DETERMINATION OF FREE, TOROIDAL	AND SOUFBOIL	141	TORSIONAL RIGIDITY OF STRUCTURAL	BEAN -	
OSCILLATIONS OF GRAVITATING SOLI	D SPHERE -		INTERMITTENTLY STIFFENED I BEAM		1238
MATHEMATICAL ANALYSIS ASSUMING R			T6AH-246	N63-16970	14
MASA-CR-50654	N63-18419	17-12	STRESS-STRAIN DISTRIBUTION OF A V	ISCOELASTI	1
BUCKLING STABILITY OF TORISPHERI	CAL SHELLS U	INDER	SOLID - TORSIONAL VIBRATION OF CI		
UNIFORM INTERNAL PRESSURE	M63-20376	20-33	WITH RIGID END MOUNTINGS EM-13-14	N63-18182	16
				Section 18 Long St.	~33
PHOTOELASTIC ANALYSIS OF REINFORM CYLINDRICAL, SPHERICAL, AND TORO- SUBJECTED TO INTERNAL PRESSURE			THERMODYNAMIC PROPERTIES OF VANAGE SYSTEM - MEASUREMENT OF IRON VAPO TORSION-EFFUSION METHOD	IUM-IRON AL	BY

7 24-23

NG ATT 06-21 66-II ISSILE 07-31 LIZED 07-30 MAGNETIC

16-17 D 17-15 SPACE 19-29 R

19-17

24-21

ONTROL 09-22 HALLOY 17-11

02-15 02-33 ORKS 06-07 9 10-03 N3C 12-19 0 14-19

14-34 DER 16-33

7

ANL-6657 N63-18383 17-18	ACUTE CARBON TETRACHLORIDE HEPATOTOXICITY N63-15846 13-16
USE AND CALIBRATION OF INSTRUMENT FOR MEASURING TORSIONAL RIGIDITY OF STIFFENED PLATES NASA-TN-D-2007 N63-18669 17-15	SAFETY ANALYSIS - EXPERIMENTAL BREEDER REACTOR-1 WITH MARK IV PLUTONIUM FUEL CORE - RADIATION
ROLLING CONTACT DEFORMATION AND TORSIONAL FATIGUE HECHANISMS N63-19166 18-33	HAZARD AND TOXICITY ANL-6411 MODEL AND MACHINE MACHINE MACHINE MACHINE MACHINE VILINGS-15937 113-10
ELECTRONIC TORSION DYNAMOMETER USING ZERO-POINT METHOD - MEASURING APPARATUS N63-20167 20-15	GAMMA AND FAST NEUTRON RADIATION - FOXICITY OF RARE EARTH COMPOUNDS AND EFFECT ON HORTALITY FROM RADIATION EXPOSURE - RADIATION PROTECTION
DYNAMIC TORSIONAL PROBLEMS IN VTOL DRIVE TRAINS WITH UNIVERSAL JOINTS N63-21841 22-04	TOXICITY AND SAFETY HAZARDS OF SOME ROCKET PROPELLANTS N63-18949 18-16
BUCKLING OF CONICAL SHELLS UNDER EXTERNAL TORSION, PRESSURE, AND AXIAL COMPRESSION TAE-19 N63-21864 22-33	EFFECT OF DIMETHYLMYDRAZINE ON COMPLEX AVDIDANCE BEHAVIOR IN JAVA MONKEY - TOXICITY
TORY II-C REACTOR TORY II-C PROGRAM - NUCLEAR PROPULSION REO HISTRUMENTATION AND DATA PROCESSING UCKL-7036, PT. 6 N63-13575 08-15	AMRL-TOR-63-39 N63-19321 18-16 TEST CHAMBER FOR STUDYING AIRBORNE MATERIALS - TOXICITY AND AEROSOL RESEARCH UR-629 N63-19523 19-10
TORY 11-C PROJECT - NUCLEAR RAMJET ENGINE TEST IN BLONDOWN WIND TUNNEL UCRL-7145 N63-18003 16-27	HAMFORD BIOLOGY RESEARCH ANNUAL REPORT FOR 1962 - TOXICITY AND METABOLISM OF RADIOACTIVE ELEMENTS, ANIMAL AND PLANT PHYSIOLOGY, ECOLOGY
TORY LI-C REACTOR - CALIBRATION OF PRESSURE TRANSDUCERS IN RADIATION ENVIRONMENTS TN-29 H63-19004 18-15	SELECTION OF SPACE CABIN ATMOSPHERES - DXYGEN TOXICITY
DUGHNESS S FRACTURE TOUGHNESS	NASA-TN-D-2008 N63-20754 21-16 TOXICITY IN MICE AT LOW BODY TEMPERATURES - ROLE OF ADRENAL HORMONES & NITROGEN IN URINE
ONED BODY AERODYNAMIC DRAG AND STABILITY OF TOMED INFLATABLE DECELERATORS AT SUPERSONIC SPEEDS	TOXICITY OF CHLORINATED HYDROCARBONS IN 1021
NASA-TN-D-1601 N63-13716 08-02 DYNAMIC STABILITY OF TOWED PARAWING GLIDER	INSECTICIDES TO PHOSPHGRYLATION PROCESSES IN RATS AND CHICKENS CARI-63-4 N63-21924 22-16
NASA-TN-D-1614 N63-13791 09-02 FLIGHT TESTS OF UNPOWERED, MANNED PARAGLIDERS NASA-TN-D-1826 N63-14429 10-04	METABOLIC EFFECTS OF METHIONINE TOXICITY IN RATS - ALTERATIONS IN THE LIVER & INCREASED URINARY EXCRETION OF AMINO ACIDS
AERODYNAMIC INSTABILITY OF NONLIFTING BODIES TOWED BENEATH AN AIRCRAFT UTIA-TN-65 N63-14844 11-02	AAL-TOR-63-5 N63-22715 23-16 ACUTE MAMMALIAN TOXICITY OF RARE EARTH NITRATES & DXIDES - RAT STUDY
AERODYNAMIC CHARACTERISTICS OF TOWED BODIES - SPHERES, COMES, AND CONICAL RINGS - DECELERATORS AT SUPERSONIC SPEEDS NASA-TN-D-1789 NASA-TN-D-1789 NASA-TN-D-1789 NASA-TN-D-1789	SAM-TOR-63-38 N63-22227 23-16 TOXICOLOGY CF PHARMACOLOGY BERYLLIUM - TOXICOLOGY, LABOR MYGIENE, SAFETY
OWER S UNBILICAL TOWER	PHARMACOLOGY AND TOXICOLOGY OF 1,1-DIMETHYL
OWER SHIELDING REACTOR II IN-AIR RADIATION MEASUREMENTS IN VICINITY OF TOMER SHIELDING REACTOR II ORNL-3288 N63-14663 10-23	HYDRAZINE AMRL-TDR-62-118 M63-11226 M63-1226 MIGH POWER AND DELILAH PROJECTS - HIGH MICROWAVE PDWER LEVELS FOR ANTIKISSILE RADAR SYSTEMS CAL-U8-1309-P-108 M63-12760 06-08
DWNSEND DISCHARGE GASEOUS DISCHARGE CHARACTERISTICS IN HYPERSONIC WIND TUNNEL FLOW - GLOW AND TOWNSEND DISCHARGE 163-22336 23-11	CAL-U8-1309-P-108 N63-12760 06-08 STAR LIST FOR USE WITH STAR TRACKER OF MARK 1 GUIDANCE SYSTER HAI-56-755 N63-12816 06-05
OXICITY CF PMARHACOLOGY HEALTH HAZARDS AND TOXICITY OF PLASTICS - BIBLIOGRAPHY PLASTEC-5 01-19	BIOCHEMISTRY - RADIOBIOLOGY - MEDICINE - BIOPMYSICS - NUCLEAR RADIATION - PHARMACOLOGY - TOXICOLOGY UCLA 510 N63-12946 07-16
ULTRA-MICROANALYSIS OF 1,1-DIMETHYL HYDRAZINE IN BLOOD AMRL-TDR-62-120 N63-10187 01-16	AFROSPACE MEDICINE AND BIOLOGY - BIBLIOGRAPHY ON PHYSIOLOGY, PSYCHOLOGY, PHARMACOLOGY, TOXICOLOGY, SAFETY, AND LIFE SUPPORT SYSTEMS N63-15258 12-16
TOXIC HAZARDS OF PENTABORANE N63-10468 01-16	RADIATION PROTECTION - PHARMACOLOGY AND TORICOLOGY IN PROTECTION FROM RADIATION DAMAGE - CYANIDE
EXPOSURE IMMALATION TOXICITY OF PENTABORANE IN OGGS N63-12466 06-16	EFFECT ON LETHAL RADIATION DOSE IN MICE MAS-17041 15-16 CHEMICAL COMPOUNDS USED IN PHARMACOLOGY AND
LAUTERBACH AND DAUTREBANDE AEROSOL GENERATORS IN STUDIES OF INMALATION TOXICITY - PARTICLE SIZE	TOXICOLOGY AS RADIATION PROTECTION AGENTS - EFFECT OF CHEMICALS ON LIFESPAN IN X-IRRADIATED MICE NG3-17042 15-16
OISTRIBUTION	CHENICAL COMPOUNDS USED IN RADIATION PROTECTION OF

SPI ANI TRANSPORTED TO THE PROPERTY OF THE PRO

NICE - PHARMOCOLOGY AND TOXICOLOGY N63-17043 15-16	AFCRL-62-347 NG3-11895 04-0
THERAPY OF ACUTE DIMETHYLHYDRAZINE INTOXICATION AMRL-TDR-63-44 N63-19452 19-16	ANALOG COMPUTER PROGRAM FOR SOLUTION OF TWO- DIMENSIONAL ELECTROMAGNETIC RAY TRACING EQUATIONS FOR THE IONOSPHERE N63-16736 17-12
TOXICOLOGICALLY SIGNIFICANT ENVIRONMENTAL CONTAINANTS NEAR TITAN II TEST FIRING FACILITIES AMRL-TDR-03-52 N63-19845 19-16	ANALOG COMPUTER PROGRAMMING FOR RAY TRACING OF RADIO WAVES IN THE IONOSPHERE N63-19517 19-20
TOXICOLOGICAL PROBLEMS AT LAUNCH SITE - AEROSPACE MEDICINE N63-20554 20-16	APPLICATION OF EXACT RAY THEORY TO LAYERED ELASTIC
EFFECTS OF SUNLIGHT ON ORGANIC COMPONENTS OF CLOSED ECOLOGICAL SYSTEMS - PRODUCTION OF TOXIC	AFCRL-63-838 N63-20687 20-12
END PRODUCTS SAM-TDR-63-65 N63-23514 24-16	SA MINITRACK NUCLEAR STAR DENSITY PRODUCED BY 24-GEV PROTON BEAM IN HEAVY CONCRETE
PARASTATISTIC CONNECTION WITH SPIN AND TPC THEOREM	ORNL-3367 N63-11983 05-23
FOR GENERAL FIELD THEORY NYO-10241 N63-11865 04-23	PHOTOMICROGRAPHY MEASUREMENTS OF GRAIN DENSITIES OF IONIZED PARTICLE TRACKS IN NUCLEAR EMULSIONS USARDL—TR—591 06-15 W63-12481 06-15
TRACE ELEMENT ANALYSIS OF TRACE ELEMENTS IN ALUMINUM OXIDE MATRICES BY SPECTROGRAPHY	VELOCITY AND ACCELERATION PROFILES OF ROCKET SLESS USING ADVANCED TRACKS
AFCRL-63-3 N63-14839 11-18	ORA-63-1 N63-13417 00-10
DETERMINATION OF TRACE ELEMENTS IN MINERALS AND ORES BY FLUDRESCENT X-RAY SPECTROGRAPHY BN-RI-5966 N63-17888 16-18	INTERACTION OF HIGH ENERGY PARTICLES IN BUBBLE CHAMBER STUDIED BY SPARK CHAMBER LABELING OF TRACKS
ADSORPTION OF TRACE ELEMENTS FROM SULFURIC ACID	BNL-746/T-272/ N63-13551 08-23
BY BASIC ANION EXCHANGE RESINS AE-103: N63-17959 16-07	DELINEATION OF TRACKS OF HEAVY COSMIC RAYS AND NUCLEAR PROCESSES WITH IN LARGE SILVER CHLORIDE CRYSTALS
CF ISOTOPE THE MANAGEMENT AND THE STATE OF T	NASA-TN-D-1547
NON-NEWTONIAN FLUID FLOW BY TRACER DISPLACEMENT AROD-1830-1 N63-12757 06-11	PATTERN RECOGNITION DEVICE FOR LINE SEGMENT DETECTION FOR USE WITH BUBBLE CHAMBER PARTICLE TRACKS
RADIOTRACER TECHNIQUE IN ELECTROMETALLURGICAL PROCESSING	NY0-2667 W N63-16469 14-11
8M-RI-6195	ENVIRONMENTAL VIBRATION AND ACCELERATION TESTING ON ROCKET SLED TEST TRACK N63-16766 14-10
STRATOSPHERIC RESULTS OF RHODIUM-102 HIGH ALTITUDE TRACER EXPERIMENT AFCRL-62-460/1/ MANUAL M63-13926 09-12	INERTIAL GUIDANCE SYSTEMS - ACCELEROMETER ERROR COEFFICIENTS FROM ROCKET SLED TRACK TESTS
ATMOSPHERIC TRACER TECHNIQUE USING ZINC SULFIDE	N63-16858 14-II
AND FLUORESCENCE HW-70892 N63-15532 12-21	INERTIAL GUIDANCE SYSTEMS - ROCKET SLED TEST TRAD N63-16862 14-1
TRACER METHOD FOR BURNING RATE DETERMINATION IN SOLID PROPELLANTS	TRACKS, SLED STRUCTURES, PROPULSION TECHNIQUES, AND INSTRUMENTATION ADAPTABLE TO MEAPONS SYSTEMS
RHD-5502-F N63-16405 14-26	TEST PROGRAMS NOTS-1938, REV. 1 N69-17128 15-1
FLOW MEASUREMENT OF TRANSPORT PROPERTIES AT FLAME TEMPERATURE - RADIOACTIVE TRACER	GAS DYNAMIC ASPECTS OF ENCLOSED HYPERSONIC TEST
DEL-13-P N63-17524 16-11	TRACK ORA-63-9 N63-17727 16-1
RADIDACTIVE TRACER AND WORK FUNCTION OF CHEMISORPTION OF GAS ON METAL N63-18408 17-23	TRACKER DEVICE ENGINEERING DESIGN OF ADVANCED ORBITING SOLAR
ISOTOPIC CARBON AS A TRACER ELEMENT FOR COMBUSTION N63-18516 17-26	OBSERVATORY SATELLITES - STABILIZATION & CONTROL SUM TRACKER INSTRUMENTATION M63-15170 11-3
RADIOTRACER STUDIES TO DETERMINE FINAL DISTRIBUTION OF CERTUM ADDITIONS TO STEEL AND	TRACKING SA RADAR TRACKING SA SPACECRAFT TRACKING CF POSITION INDICATOR DIXOT DRA SURATAR HTTALM
EFFECT ON SULFIDE INCLUSIONS N63-18719 17-18	CF TARGET DISCRIMINATION
RADIATION THERAPY OF MALIGNANT DISORDERS USING TOTAL BODY IRRADIATION - USE OF MEDICAL MUCLIDES,	MOVIE-THEODOLITE MEASUREMENT OF PARACHUTE TRAJECTORIES
RADIOISOTOPES, AND TRACERS ORINS-42 N63-18744 17-16	01-10 TELOT-LOW 951-50-AGT-JAMA
POSITRONS AS TRACERS TO STUDY MOTION OF TRAPPED ELECTRONS IN EARTH MAGNETOSPHERE 10A/HQ-63-1715 N63-20063 20-28	RADIO AND RADAR ASTRONOMY, TRACKING AND DATA ACQUISITION - CONGRESSIONAL HEARINGS N63-10862 02-0
BALL BEARING WEAR & LUBRICATION TEST MACHINE USING	A COMERENT PULSED RADAR VELOCITY TRACKING DEMONSTRATION N63-11423 03-1
X-RAY & RADIDACTIVE TRACER TECHNIQUES ALGSTOLL A	NASA AUTHORIZATION, 1963, METEGROLOGICAL AND
TRACING TRANSEQUATORIAL PROPAGATION ANALYSIS - RAY	COMMUNICATIONS SATELLITES, TRACKING - CONGRESSIONAL HEARINGS No3-11662 04-0
TRACING AND MODE	HANDLING QUALITIES IN CLOSED-LOOP ROLL TRACKING

ONS 7-12

9-20 STIC 0-12

i-23 is i-15

-23

-21

-15 -10 -15 -15

111

TASKS BY AILERONS ALONE ASD-TOR-62-507 N63-11785 04-04	NOTES ON SATELLITES, SPACE WAVIGATION, TRAJECTORIES, REENTRY, TRACKING AND COMMUNICATIONS N63-20340 20-29		
SPACE COMMUNICATIONS - NASA PROGRAMS, TRACKING, AND DATA PROCESSING N63-12295 05-06	DERIVATION OF PHYSICAL CONSTANTS FROM RADIO		
TRACKING PERFORMANCE OF F-86D AIRCRAFT WITH RADAR FIRE-CONTROL SYSTEM	ASTRONOMICAL UNITS ATAA PAPER-63-424 N63-20498 20-32		
NACA-RM-AS7J01 N63-12503 06-04 EFFECTS OF MANUAL ATTACK-DISPLAY NOISE FILTERING	DOPPLER RADAR TRACKING FOR TRAJECTORY OF		
ON PILOT TRACKING PERFORMANCE	NSRC-4 N63-20730 21-08		
RADIO TRACKING OF MARINER II AND ITS SCIENTIFIC IMPLICATIONS N63-13161 07-08	MARINER II VEHUS MISSION - PREPARATION, ATLAS- AGENA LAUNCH VEHICLE, SPACECRAFT FLIGHT, TRACKING, AND SCIENTIFIC EXPERIMENTS		
PERSONNEL DECISION THEORY DEDUCED FROM HUMAN AS TRACKING OPERATOR JPL-TR-32-391 08-14	TACTUAL DISPLAY FOR VEHICLE CONTROL - PSYCHO- PHYSICS OF TACTUAL PERCEPTION, TACTILE STIMULATORS, DISPLAY & TRACKING EXPERIMENTS		
MARINER II SPACECRAFT - TRAJECTORY, INJECTION, VENUS, TRACKING, AND MIDCOURSE CORRECTION JPL-TR-32-395 00-29	NASA-CR-51518 N63-22029 22-06 HUMAN COMPENSATORY TRACKING PERFORMANCE AS A FUNCTION OF FILTER TIME CONSTANT AND CONTROL GAIN		
INTERPLANETARY SPACECRAFT, TRACKING TECHNIQUES JPL-TR-32-284 N63-13623 08-08	SOURCE OF NONLINEARITY IN PURSUIT TRACKING -		
SIGHTING PROBLEMS ASSOCIATED WITH SEXTANT TYPE MEASUREMENT OF STAR POSITION FOR SPACE NAVIGATION MASA-TH-D-1653	HUMAN PERFORMANCE AND TRACKING ERROR N63-23260 24-14 TRACKING SYSTEM		
EFFECT OF FIELD OF VIEW AND ORIENTATION ON TIME REQUIRED FOR STAR FIELD IDENTIFICATION - PATTERN	TRACKING SYSTEMS, MATHEMATICAL MODELS & ERRORS MASA-TH-0-1471 01-08		
RECOGNITION N63-14445 10-22	OPERATIONAL 960-MC MASER SYSTEM FOR DEEP-SPACE TRACKING MISSIONS		
ACCURACY OF MANUAL OPTICAL THEODOLITE SIGHTING OF THE CENTER OF A PLANETARY DISK N63-14446 10-22	JPL-TR-32-306 M63-10250 01-25 COORDINATE CONVERTER FOR TRACKING SYSTEM OF RADIO		
PHOTOGRAPHIC TRACKING OF HYPERSONIC TRAILBLAZER	TELESCOPE USING DIGITAL INTEGRATOR		
REENTRY VEHICLE DOS BUILLANT ON BUILDING HOLTEN	SINGLE STATION DOPPLER-INTERFEROMETER ROCKET		
COMPARISON BETWEEN TRACKING WITH OPTIMUM DYNAMICS	TRACKING SYSTEM NASA-TN-D-1344 TASH DASA-TASH N63-12488 06-22		
AND SIMPLE INTEGRATOR, HUMAN PERFORMANCE N63-15180 11-14	PHASE ERROR BEHAVIOR OF PHASE-LOCKED LOOP TRACKING		
TELECOMMUNICATIONS RESEARCH - RADIO PROPAGATION, IT IONOSPHERIC ABSORPTION, WEATHER RADAR, LF RADIO	SYSTEM IN PRESENCE DE GAUSSIAN NOISE DETERMINED BY FOKKER-PLANCK EQUATION JPL-TR-32-427 M63-14881 11-23		
NOISE, AND SPACE TRACKING - SOUTH AFRICA CSIR-T-26 N63-15368 12-08	MODIFIED MATTS TRACKING STATION EVALUATION APGC-TDR-62-14 N63-15196 11-15		
SCINTILLATION TRACE TRACKING BY COMPUTER - IONIZATION CHAMBER N6-3-15474 12-15	SPACE SCIENCE - DOPPLER PRINCIPLE IN ROCKETRY - TRACKING SYSTEMS N63-15999 13-00		
HULTIFUNCTION SENSORS FOR SPACE VEHICLE GUIDANCE	FLIGHT PATH TRACKING EQUIPMENT OF GERMAN		
AND NAVIGATION - STAR FIELD TRACKING N63-15916 13-22	DFL-169 RESEARCH INSTITUTE N63-16300 13-29		
ALUMINUM OXIDE IN ATMOSPHERE - SCATTERING AND PHOTOGRAPHIC TRACKING N63-16917 14-12	NIMBUS SATELLITE AUTOMATIC PICTURE-TAKING SUBSYSTEM - GEOGRAPHIC POSITION, RECTIFICATION, TRACKING - DATA REDUCTION		
PHOTOGRAPHIC TRACKING OF METEORITE TRAJECTORIES	ARA-T-9219-1 16-32		
N63-16649 14-05 STAR TRACKING - H ALPHA LINE IN STELLAR SPECTRUM N63-16693 14-29	PROJECT GROUND-BASED TRACKING SYSTEMS AND SPACECRAFT COMMUNICATIONS SYSTEM		
MONOPULSE ANTENNAS - TRACKING	FIBER OPTICS TRACK/SCAN SYSTEM		
R63ELS-6 N63-17500 16-08	R63ELC10 N63-19667 19-08		
OPTICAL SATELLITE TRACKING PROGRAM - PHOTOGRAPHIC TRACKING, MODWATCH PROGRAM, COMMUNICATIONS NASA-CR-50225 N63-18166 16-10	TRADEOFF DECISIONS OF TRADE-OFF BETWEEN COST, RELIABILITY, MAINTAINABILITY, AND SUPPLY RH-62TMP-42 N63-20733 21-01		
RETENTION OF TRAINING IN DISCRETE /PROCEDURAL/ AND CONTINUOUS / TRACKING/ TASKS ANRL-TOR-63-35 No.3-18264 17-14	RH-62THP-42 TRAFFIC CONTROL S AIR TRAFFIC CONTROL		
ADAPTIVE CHARACTERISTICS OF MANUAL TRACKING MASA-CR-50297 463-10286 17-14	TRAIL GENERATION OF A LUNINOUS TRAIL IN NIGHT SKY GY		
TIROS SATELLITE PHOTOGRAPHIC TRACKING OF PACIFIC DCEAN TROPICAL CYCLONES	RELEASE OF ROCKETBORNE CHEMICALS - NITRIC OXIDE N63-11247 03-12		
AFCRL-63-493	DIFFUSION-KINETICS OF NIGHT TRAIL GENERATION BY		

EVA HUM MRL

PRE WEA FAC HUP

VAI FLI

VIII EN' TRI

HA FA

ST

RE T E

DIFFERENTIAL EQUATIONS N63-11249 03-	12 EDGE FLAP CONTROLS AT SUPERSONIC SPEEDS NASA-MEHO-10-2-58L N63-12499 Q6-02
ELECTRON DISTRIBUTION OVER THE RADIUS OF A METEO TRAIL N63-11525 03-	along on control parcellar and ordered personal
FLOW FIELD AND BURSTING PHENOMENON OF SWEPTBACK WING LEADING EDGE VORTICES	CHARACTERISTICS OF FLAP-TYPE CONTROLS NACA-RM-L58825 09-33
ARC REM-3282 N63-13351 08-	JET FLAPS - BLOWOUT FROM SLOT NEAR THE TRAILING
METEOR FLOW CHARACTERISTICS FROM OBSERVATION OF RADAR ECHOES FROM METEOR TRAILS	EDGE, CIRCULAR CYLINDER, RECTANGULAR WING N63-14437 10-03
N63-15470 12-	CALCULATIONS ON LIFT GAIN OF AN AIRFOIL WITH
IONIZATION IN METEOR TRAILS - RADIO ECHO OBSERVATION N63-16629 14-0	SIMULTANEOUS BLOWING ON TRAILING EDGE AND NOSE PROFILE
METEOR TRAILS - IONIZATION AND RADIO ECHO OBSERVATION 14-	DFL-189 N63-14439 10-63 FREE OSCILLATION TEST TO DETERMINE HINGE MOMENT OF
MICROMETEORITE PARTICLES FROM SOUNDING ROCKET N63-16637 14-	TRAILING-EDGE, FLAP CONTROL SURFACE WITH VARIOUS HINGE-LINE POSITIONS AT TRANSONIC SPEED
METEOR SPECTROPHOTOMETRY - METEOR TRAIL - SPECTRO	UM WIND TUNNEL TEST OF GROUND EFFECT OF 35-DEG SWEPT-
AND LUMINOSITY N63-16646 14-	05 BACK WING JET TRANSPORT EQUIPPED WITH BOUNDARY LAYER CONTROL, TRAILING & LEADING EDGE FLAPS
METEOR TRAILS - LUMINOSITY - IONIZATION - ELECTRI ION RECOMBINATION N63-16648 14-4	ON MASA-TN-D-1884 N63-15922 13-03
S-58 HELICOPTER WAKE STUDIES BY PHOTOGRAPHS	
OF COLORED SMOKE TRAILS N63-20774 21-	
METEOR TRAIL MEASUREMENTS - HEIGHT, DECELERATION	
NOMINAL DENSITY, MAGNITUDE, FRAGMENTATION, & MASS NASA-CR-51366 N63-21432 22-	
ATMOSPHERIC MISUSE AND SMOKE DIRECTION. DISPERSIO	ON EFFECTS ON AERODYNAMIC STABILITY OF MODIFYING WING
AND WIND DIRECTION BNL-784/T-298/ N63-22389 23-	INBOARD TRAILING-EDGE CAMBER OF MODEL AT HIGH
OVERSNOW TRANSPORT IN TRACKED, WHEELED AND SKI	NASA-TN-D-1809 N63-16428 14-03
VEHICLES - SNOW SINKAGE AND MOTION RESISTANCE, TRAIL MARKING, AND CREVASSE CROSSING CRREL-III-44 N63-22639 23-1	TRANSONIC MAGNETOGASDYNAMIC FLOW IN INVISCID MEDIUM - LEADING AND TRAILING EDGE FLOW PATTERNS 10 10
SHOKE-TRAIL VEHICLE DEVELOPMENT FOR WIND SHEAR	BASE FLOW ON BLUNT TRAILING-EDGE WINGS AT SUBSONIC
MEASUREMENTS NASA-TN-D-2009 N63-23681 24-0	AND SUPERSONIC SPEEDS N63-22214 23-02 ARC-REM-3323 N63-22214 23-02
TRAILBLAZER HISSILE	TRAINER
PHOTOGRAPHIC TRACKING OF HYPERSONIC TRAILBLAZER REENTRY VEHICLE	CF AIRCRAFT . MAGAE REMTASH . MGLT4MGAHA DI AMAGNAL
AFESD-TOR-62-117 N63-15074 11-	AMBI - MEMO - 0 - 20 M42 - 231 EB - 24 - 01
TRAILBLAZER I REENTRY VEHICLE FLOW FIELD OF TRAILBLAZER I BLUNT BODY UNDER	SCHULLLATION TRACE, TRICKING IN CORPUTAL
REENTRY CONDITIONS	RESEARCH ON PROBLEMS OF ELECTRONIC MAINTENANCE AND
GASL-TR-231 N63-13477 08-0	OZ TRAINING & EVALUATION OF PERSONNEL AMRL-MEMO-P-35 N63-23159 24-00
HYPERSONIC WIND TUNNEL TESTING OF TRAILBLAZER I REENTRY RESEARCH VEHICLE - AERODYNAMIC	TRAINING ADDITION OF THE PROPERTY OF THE PROPE
CHARACTERISTICS	CF BEHAVIOR
NASA-TN-D-1936 , N63-18163 16-0	CF INSTRUCTION
TRAILBLAZER II REENTRY VEHICLE FLOW FIELD OF BLUNTED 9-DEGREE CONE - DOWNSTREAM	
AND SHOCK LAYER INVISCID FLOW AND FAR WAKE LAMING FLOW OF TRAILBLAZER II REENTRY BODY	AR EFFECTS OF TASK ORGANIZATION, TRAINING TIME, AND RETENTION INTERVAL ON THE RETENTION OF SKILL
GASL-TR-256 II N63-13453 08-0	
STATIC AERODYNAMIC CHARACTERISTICS OF THREE-STAGE TRAILBLAZER II ROCKET VEHICLE DETERMINED IN LOW	E IMPROVING FLIGHT PROFICIENCY EVALUATION IN ARMY HELICOPTER PILOT TRAINING
TURBULENCE PRESSURE WIND TUNNEL	HUHRRO-TR-77 N63-11200 03-14
NASA-TN-D-1786 N63-15307 12-0	SURVEY OF OPERATIONAL FLYING ACTIVITIES OF ROTARY
TRAILER FUMING NITRIC ACID SERVICING SEMI-TRAILER	HUMRRO-TR-75 N63-11339 03-14
SSD-TDR-62-174 N63-11022 03-2	FIELD SURVEY OF SELF-TUTORING COURSE FOR ON-SITE
MODIFIED TYPE A-18 SERVICING TRAILER FOR HYDRAZINAND UNSYMMETRICAL DIMETHYL HYDRAZINE	NE TRAINING IN SAGE AN/FST-2 MAINTENANCE MATRIX-62-11 N63-13164 07-00
SSO-TDR-62-176 N63-11133 03-2	COST ESTIMATE OF TECHNICAL TRAINING BY
TRAILING EDGE	CONVENTIONAL AND PAGGRAMMED LEARNING METHODS MRL-TDR-62-79 N63-14044 09-14
BLUNT TRAILING EDGE BLADES FOR SUPERSONIC COMPRESSORS	
NGS-10017 01-0	HETHODS USED IN UNIVERSAL DIGITAL OPERATIONAL
AERODYNAMIC CHARACTERISTICS OF CRUCIFORM-WING MISSILE CONFIGURATION WITH CANARD AND TRAILING	NAVTRADEVCEN-838-2 N63-15328 12-20
PISSILE CONFIGURATION WITH CANARD AND TRAILING	NAVTRADEVCEN-838-2 N63-15328 12-2

20

13

13

13 F 3

EVALUATION OF AUTOINSTRUCTIONAL	DEVICE USED	IN		PERSONAL PROPERTY AND ADDRESS
HUMAN TECHNICAL TRAINING	N63-15467	12-14	ANKL HERE THE STATE OF THE PARTY OF THE PART	163-23810 24-14
PREDICTION OF TRAINING REQUIREMENT WEAPONS SYSTEMS - MAN-MACHINE CONFACTORS			TRAINING AIRCRAFT FLIGHT TESTS OF VAMPIRE MK.35 TRAI ARL/SM-275	NER AIRCRAFT 163-19907 19-04
HUMRRO-TR-83	N63-15564	12-14	IKAINING EQUIPMENT	-55-556-63-684.384.1
VALUE OF PROFESSIONAL GUIDANCE I FLIGHT PERSONNEL	N TRAINING 0	13-14	CF FLIGHT SIMULATOR CF SPACE CABIN SIMULATOR TRAINING MATERIAL FOR AERIAL COSER IN VISUAL SKILLS	IVER INSTRUCTION
VIGILANCE PERFORMANCE AS FUNCTION			HUMRRO-TR-80, SUPPL.	Life and the Company of the Company
TRAINING HUMRRO-RR-11	N63-16377	14-14	PAIRED-ASSOCIATES TRAINER - PSYCHO TRAINING EQUIPMENT	CONTRACTOR OF THE STATE OF THE
FLIGHT SIMULATION IN CREW TRAINS		SPACE 15-14	AMRL-TDR-62-104 AIRCRAFT PERFORMANCE SINULATORS FO	163-13420 C8-14
HANNED SPACE FLIGHT - SIMULATION	or manufalton and	61801	NAVTRADEVCEN-1146-1	163-14788 11-04
FACILITIES - GEMINI AND APOLLO F		15-10	INVESTIGATION AND EVALUATION OF MA METHODS USED IN UNIVERSAL DIGITAL FLIGHT TRAINER TOOL/UDDFTT	
STIMULUS SIMILARITY AND DELAY IN	TRANSFER OF	SOFWIE SOFWIE		163-15326 12-20
TRAINING AMRL-TDR-63-26	N63-17584	16-14	HYPERFINE STRUCTURE OF ERBIUM-169	AND RADIOACTIVE
RETENTION OF TRAINING IN DISCRET	E /PROCEDURA	L/ AND	ISOTOPES OF REFRACTORY ELEMENTS UCRL-10609	163-15487 12-23
CONTINUOUS /TRACKING/ TASKS AMRL-TDR-63-35	N63-18264	17-14	PILOT VISIBILITY - PILOT VISUAL PI	ERCEPTION TASK -
TRAINING OF ASTRONAUTS	N63-18453	17-14	VISIBILITY TRAINING EQUIPMENT NAVTRADEVCEN-783-1	163-16715 14-14
EDUCATION AND TRAINING OF CIVIL	DEFENSE		TRAINING EQUIPMENT FOR VARIOUS WE	APONS SYSTEMS
TECHNICIAN - RADIATION PROTECTIO	N63-18934	18-01	PROGRAMS BSO-TOR-63-127	N63-20144 20-14
ZERO GRAVITY INDUCTRINATION FOR	GEMINI/APOLL	0	TRAINING AND TRAINING EQUIPMENT RE	
ANRL-MEMO-P-31	N63-19003	18-14	FUTURE GROUND OPERATORS & MAINTEN ADVANCED SPACE STATIONS	10 F 1 - FO B E S 1 A 100 B L C
NATURAL PILOT MODEL FOR FLIGHT PENALUATION IN OPERATIONAL FLIGHT PILOT PERFORMANCE PROFICIENCY ME	TRAINING -		TRAJECTORY	N63-21366 22-08
NAVTRADEVCEN-323-1 VISUAL SIMULATION TECHNIQUES FOR	N63-19088		SA BALLISTIC TRAJECTORY SA CIRCUMLUNAR TRAJECTORY SA EARTH MOON TRAJECTORY SA INTERPLANETARY TRAJECTORY	VANTUELANT
FLIGHT TRAINING - HIGH RESOLUTION ELECTRONIC PLANETARIUM AMRL-TOR-63-54, VOL. 1	N63-19434	19-10	SA LUMAR TRAJECTORY SA MOON TO EARTH TRAJECTORY SA ROUND-TRIP TRAJECTORY	
		2000	CF BALLISTICS CF CELESTIAL MECHANICS	ARE-TRANS-1826
HUMAN QUALIFICATIONS - SELECTION SPACE FLIGHT	N63-19637	19-14	CF PATH	DRY SYSTEM /MATTS
HUMAN FACTORS IN TRAINING AND PE MEASUREMENT - AIR TRAFFIC CONTRO ESD-TDR-63-328		19-14	HEAT TRANSFER AND PARTICLE TRAJECT ROCKET NOZZLES	TORIES IN SOLID
ARMY TRAINING PROGRAM - HUMAN RE			WEIGHTLESS MAN - SINGLE IMPULSE TO	
THE RESERVE OF THE PROPERTY OF	N63-20330	20-14	ORBITAL WORKERS	N63-10130 01-32
DEVELOPMENT AND TRAINING OF ASTR	CONAUTS IN SO	VIET	ANALYSES OF PACIFIC STORMS BASED	v. Dhahanananahan
JPRS-20967	N63-20906	21-01	RADAR RECORDS AND SHORT-INTERVAL VUL V. JUNE 5 TO 7, 1961	
TRAINING AND TRAINING EQUIPMENT FUTURE GROUND OPERATORS & MAINTS			AFCRL-62-469	N63-10212 01-21
ADVANCED SPACE STATIONS AMRL-TDR-63-67	N63-21366	22-06	EARTH TRAJECTORY MODEL FOR SUBSUR	FACE BALLISTIC
ASTRONAUT TRAINING FOR MERCURY	PROJECT	MONG, A1	AFSWC-TDR-62-106	N63-10439 01-20
Appropriate stationary for the first of	463-21961	22-14	TABLES OF NON-RELATIVISTIC ELECTR FOR FIELD EMISSION CATHODES	ON TRAJECTORIES N63-10498 01-23
AIRCREW TRAINING	N63-22151	22-14	MASS UNBALANCE IN A SIMPLIFIED AU	TOSPIN SYSTEM -
CLASSIFICATION OF LEARNING TASKS ANALYZING TRAINING REQUIREMENTS LEARNING PRINCIPLES IN HUMAN ENG	& APPLYING		TEAH-206	463-10716 02-20
AMRL-TOR-63-74	463-22594	23-08	THERMOSTATIC TEMPERATURE CONTROL REENTRY OF HYPERVELOCITY SPACE VE	
FLIGHT TRAINING QUALITY CONTROL APPLICATION TO HELICOPTER TRAIN		TS		N63-10920 02-13
APPLICATION TO HELICOPTER TRAIN	M42-72474	23-14	TRAJECTORY OF TEXTITES SAO SPECIAL REPT105	N63-11823 04-29
SELF-INSTRUCTION METHOD OF FIXED	PROCEDURES N63-22808	23-14	HIGH-ENERGY SCATTERING - PART 1.	ADMINE THOMS CLIPPED
HUMAN PERFORMANCE TESTING - EXAL			SCATTERING & FIELD THEORY - PART	

FORTRA

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TRAJE!

EARTH ELLIP TRAJE JPL-T

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PLASMA OSCILLATIONS AND PARTICLE ELECTRON STREAM - PALMER DIAGRAMS IER SER. 60, ISSUE 458		06-24		3-17167	ES - 15-32
AUTOMATING SPACEFLIGHT TRAJECTORY COMPUTER METHODS FOR INCLUDING PH MISSION CONSTRAINTS	HYSICAL AND		OPTIMUM SMOOTHING OF TRAJECTORY DATA REFERENCE TO FPS 16 RADARS SAD-103 N6:		15-20
IAS PAPER-63-85	N63-12901	07-29	GUIDANCE REQUIREMENTS FOR SOFT-LAND	59-55-09	2/19/14
REENTRY TRAJECTORY CALCULATION, F BLUNTED NINE-DEGREE CONE CASI-TR-256 I			TRAJECTORY	3-17217	
GASL-TR-256 I	N63-13452	08-02	GUIDANCE SYSTEM ERRORS AND RESULTING		
MARINER II SPACECRAFT - TRAJECTOR VENUS, TRACKING, AND MIDCOURSE CO JPL-TR-32-395		ON, 08-29		3-17520	16-22
AUTOMATIC INTERPLANETARY STATION BY SOVIETS	MARS I LAUN		SPUTNIK V SATELLITE SYSTEMS ANALYSI: ORBITING, DESCENT TRAJECTORY, FLIGHT COMMUNICATIONS NO.	S - LAUNCH IT CONTROL 3-18450	AND
RAE-TRANS-1026		10-29	FORTRAN PROGRAM FOR CALCULATING SPACE	11111111111	13.78
EFFECT OF BODY GEOMETRY ON TURBUL WAKE OF REENTRY			TRAJECTORIES THROUGHOUT BURNOUT	3-19378	18-29
	N63-14449	10-11	UNDERWATER TRAJECTORIES FOR FINNED	The School of the School	477000
COMPUTER PROGRAM OF PLASMA STABIL DIMENSIONAL FLOW TRAJECTORY			NONLINEAR MOTION EQUATIONS	3-19513	
	N63-14997	11-24	TRAJECTORY REQUIREMENTS FOR TERMINAL		271100
PREDICTION OF VELOCITY REQUIREMENTIME RESPONSE ABORT TRAJECTORIES			FROM ANALOG SIMULATION OF SPACECRAFT		121/0000
GUIDANCE OF LUNAR FLIGHT NASA-TN-D-1655	N63-15052	11-29	TRAJECTORY SIMULATION FOR STABILITY	AND CONTE	ROL
PROTON FLUXES ALONG TRAJECTORIES		NER	STUDIES OF MULTIENGINE BOOSTERS	3-19734	
Artistation and Philosophy	N63-15151	11-20	NOTES ON SATELLITES, SPACE NAVIGATIO		(944)
GEOMETRY OF LUNAR ORBITS FROM EAR TRAJECTORY		11.20	TRAJECTORIES, REENTRY, TRACKING AND No.	3-20340	20-29
MASA-1N-0-1780	N63-15236	11-29	GUIDANCE POLICIES FOR MULTIPLE-IMPU		
LIFTING TRAJECTORY FOR ABORTING V DYNAMIC PRESSURE OF A LUNAR MISSI	ON		OF SPACECRAFT TRAJECTORY AIAA PAPER-63-334 N6		11773
78/19		12-29	TRAJECTORY OPTIMIZATION TECHNIQUE BA		
MOTION OF ELECTRON IN MAGNETIC BO TRAJECTORY 1PPJ-2	13.871 300000		OF SECOND VARIATION		21-29
IPPJ-2 COLLISION AND CAPTURE TRAJECTORIE		12-24 -800Y	MATHEMATICAL COMPUTATION OF CLASSICA OF GAS MOLECULES NEAR CRYSTALLINE SO	OLID	
PROBLEM	N63-15435	12-29	AIAA PAPER 63-463 NG	3-20797	21-23
ORBITAL RENDEZVOUS - TRAJECTORY,	AND THE SALES	23 113 30	ROCKET AND JET PROPULSION THEORIES, HEAT TRANSFER, ROCKET TRAJECTORIES, FLOW	AND HYPER	
PROPULSION RM-3275-PR	N63-16551	14-29			LANDARD
PHOTOGRAPHIC TRACKING OF METEORIT				3-22277	23-22
METEOR TRAJECTORIES IN ATMOSPHERE			CLASSICAL ANALYTIC MECHANICS FOR SIP SPACE VEHICLE MOTION & PERFORMANCE - MODELS OF MISSILE TRAJECTORY	- MATHEMAT	TICAL
SPACECRAFT GUIDANCE - VEHICLE TRA	JECTORIES	T. Marie	LMSC-TR-3-80-61-2		
NASA-TM-X-50077	N63-16801	14-01	EARTH POTENTIAL FOR TRAJECTORY CALCUANALYTIC STUDIES	AND SHAPE	
SPACECRAFT GUIDANCE - MULTISTAGE TRAJECTORIES	ROCKET N63-16802	14-29	SM-42820 N6:		23-22
SPACECRAFT GUIDANCE - LOW THRUST TRAJECTORIES	PROPULSION N63-16804	14-29	2004 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3-23027	24-30
SPACECRAFT GUIDANCE - LOW THRUST		5 ABL 8	NONLINEAR GUIDANCE SYSTEM FOR DESCEN		TORIES 24-22
TRAJECTORIES - ORBITAL MECHANICS	N63-16805	14-29	LUNAR LANDING & LONG RANGE EARTH REE	ENTRY GUIL	DANCE
SHOCK WAVE GENERATOR - HEAT TRANSPORTED TO SURFACE TEMPERATURE	FER AND PRE		BY SINGLE NOMINAL TRAJECTORY USING F THEORY NO. TRAJECTORY ANALYSIS	PERTURBATI	ION
PIBAL-437	N63-16891	14-13			
REENTRY STABILITY AND TRAJECTORY	ANALYSIS FO	IR	TRAJECTORIES HGL PAPER-26 N6:	3-10024	01-03
	N63-16937		PERFORMANCE AND ABORT CONSIDERATIONS SELECTION OF INJECTION CONDITIONS FO	OR EARTH-	NG MOON
ASCENT FROM LUNAR SURFACE - SINGLE RETURN TO EARTH PHASE OF SPACE MI NASA-TN-D-1644	SSION	15-28	AUTOMATIC ROCKET IMPACT PREDICTOR	3-10374	01-29
	ND3-10987		SELNS-M-14 N63		

H.

32

28

26

22

32

29

2

2

q

FORTRAN PROGRAM FOR BALLISTIC MISSILE TRAJECTORY
FROM BURNOUT TO IMPACT N63-10940 02-20
INSTERMINATION OF OPTIMUM TRAJECTORIES LEADING TO

CIRCULAR ORBITS
AS PAPER-2626-62 N63-11259 03-29

MALOG COMPUTER METHOD FOR TWO-DIMENSIONAL TRAJECTORY OF SINGLE-STAGE ROCKET VEHICLE CANDE-TM-662/62 N63-12092 05-20

FARTH-VENUS TRAJECTORIES - HELIOCENTRIC TRANSFER ELIPSE AND LAUNCH PLANET-CENTERED ESCAPE TRAJECTORIES FOR 1964 JR_TH-33-99, VOL. 1, PT. B N63-14292 10-29

MARINER /VENUS 62/ FLIGHT TELECOMMUNICATION SYSTEM FOR DATA TRANSMISSION AND TRAJECTORY DETERMINATION JPL-TR-32-377 N63-14466 10-08

LIFTING TRAJECTORY FOR ABORTING VEHICLE AT
DYNAMIC PRESSURE OF A LUNAR MISSION
NASA-TN-D-1775 N63-15306 12-29

OPTIMIZATION OF BOOST AND GLIDE TRAJECTORIES FOR SORTIE REENTRY VEHICLE - COMPUTER CONTROL PROGRAM N63-15635 12-30

RAWINSONDE DATA FOR SPACE VEHICLE TRAJECTORY
ANALYSIS
NSA-TH-X-50020 N63-16710 14-20

FORTRAN COMPUTER PROGRAM FOR VEHICLE TRAJECTORIES R-48 N63-16839 14-29

SPINNING UNGUIDED ROCKET TRAJECTORY /SPURT/
PROGRAM - SPACE VEHICLE CONTROL AND TRAJECTORY
REASUREMENT BY DIGITAL COMPUTER
ASSUC-TOR-63-11
N63-16896 14-29

EARTH-MOON SYSTEM TRAJECTORY - RETURN TO EARTH-PHASE OF SPACE MISSION - FREE RETURN FROM LUNAR SPACE FLIGHT

SPACE FLIGHT
NASA-TN-D-1833 N63-16993 15-29

FLIGHT CONDITIONS AT LUNAR SPHERE OF INFLUENCE -EARTH-MOON TRAJECTORY ANALYSIS NASA-TN-D-1820 N63-18463 17-22

TRAJECTORY ANALYSIS OF SMALL VARIABLE-DRAG PAYLOAD EJECTED AT LOW VELOCITY FROM VEHICLE IN LOW EARTH DRBIT N63-18469 17-22

GUIDANCE PHENOMENA FOR MANNED NONSTOP ROUNDTRIP TO MARS BY ANALYSIS OF TRAJECTORY AND ITS SENSITIVITY TO SMALL PERTURBATIONS N63-18633 17-22

LOW THRUST TRAJECTORY ANALYSIS - GUIDANCE SYSTEMS N63-18691 17-29

LINE OF SIGHT ERROR ANALYSIS FOR PAIRED
TRAJECTORIES USING MK. 3C VEHICLES WITH SERGEANTRECRUIT BOOSTER COMBINATIONS N63-18979 18-22

PROGRAMMING AN ANALOG COMPUTER FOR LARGE CLASS OF TRAJECTORIES — NEGATIVE GRADIENT METHOD N63-19120 18-20

TRAJECTORY DETERMINATION BY LEAST SQUARES
DIFFERENTIAL CORRECTION OF THREE DEGREE OF FREEDOM
ACCELERATIONS
NA3-19-50270 NA3-19390 18-29

OMNIBUS CALCULATOR OF KINEMATICS OF EARTH ORBITAL TRAJECTORIES FOR USE IN COMPUTER PROGRAM RM-3534-PR N63-19781 19-29

FORTRAN PROGRAM FOR TRAJECTORIES OF BALLISTIC
VEHICLES
R-54
N63-20037 19-20

GEOMETRICAL CHARACTERISTICS OF COPLANAR EARTH-MOON TRAJECTORIES IN JACOBIAN THREE-BODY MODEL NASA-TM-X-50277 20-29

TRAJECTORY ANALYSIS USING ACCESSORY MINIMUM PROBLEM IN THE CALCULUS OF VARIATIONS NASA-TM-X-50251 N63-20209 20-29 LAUNCH TO MISSION COMPLETION TARGETING TECHNIQUES.
COMPUTER PROGRAMMING FOR LUNAR AND INTERPLANETARY
FLIGHT PROGRAMS - RANGER/MARINER PROGRAM
AIAA PAPER 63-410 M63-20320 20-29-21

BOOST VEHICLE TRAJECTORIES FOR RANGER AND MARINER PROGRAMS AIAA PAPER-63-409 N63-20496 20-34

INVERSION OF ORDINARY LINEAR DIFFERENTIAL EQUATION IN MATRIX FORM FOR APPLICATION TO CLASS OF TRAJECTORY PERTURBATION PROBLEMS

N63-20585 20-29

DOPPLER RADAR TRACKING FOR TRAJECTORY OF
NIKE-CAJUN ROCKET
NSRC-4
N63-20730 21-08

ORBITAL SPACE FLIGHT - TRAJECTORY ANALYSIS.
ORBITAL MECHANICS, PERTURBATIONS, MANEUVERING, 6
REMDEZVOUS AND SATELLITE LIFETIME
NASA-SP-33, PT. 1
N63-21101 21-32

DETAILED LUNAR TRAJECTORY ANALYSIS FOR VARIOUS
PHASES OF LUNAR MISSION
NASA-SP-34, PT. 2
N63-21105 21-32

AZIMUTH AND ELEVATION MEASURING CAPABILITY OF SINGLE GROUND-BASED RADAR - EFFECT ON RADAR CAPABILITY TO ESTIMATE VEHICLE TRAJECTORY IN ORBIT NASA-CR-50943 N63-21431 22-08

DATA TRANSMISSION & TRAJECTORY DETERMINING SYSTEMS FOR RESEARCH VEHICLES AFCRL-63-821/1/ N63-21719 22-22

PERTURBATIONS & TRAJECTORY OF SATELLITE SUBJECT TO GRAVITY OF ONE CELESTIAL BODY BY ACCELERATION HODOGRAPH METHOD NASA-CR-19 N63-21897 22-29

TRAJECTORY ANALYSIS FOR MERCURY PROJECT - MISSION ANALYSIS N63-21958 22-22

TRAJECTORY OPTIMIZATION USING CALCULUS OF VARIATIONS AND RELATIONSHIP TO BALLISTIC PERTURBATION THEORY RH-3793-PR NA3-23149

DIGITAL COMPUTER ROCKET TRAJECTORY ANALYSIS
AFCRL-63-879 N63-23417 24-2

TRAJECTORY CONTROL
APPLICATION OF TIME OPTIMAL CONTROL TO A FLEXIBLE
LAUNCH VEHICLE - PITCH CONTROLLER
ARS PAPER-2694-62
N63-11276 03-31

DYNAMIC ANALYSIS OF LIQUID IN A SPHERICAL TANK WITH APPLICATIONS TO TRAJECTORY FAILURE AND LOSS OF CONTROL IN MISSILE AND ROCKET FLIGHT No-13631 08-2

PRECISE TRAJECTORY CONTROL AND GUIDANCE OF ROCKETS JPRS-12784 N63-13826 09-30

CONTROL OF ACCELERATION VECTOR OF POWERED FLIGHT TRAJECTORY AIAA PAPER-63-267 N63-17603 16-29

CONTROL OPTIMIZATION OF GUIDANCE SYSTEMS AND TRAJECTORIES 17-29 10-29 17-29

GUIDANCE SCHEME USING APPROXIMATE SOLUTIONS OF TRAJECTORY EQUATIONS TO CONTROL THE AERODYNAMIC SKIP FLIGHT OF REENTRY VEHICLE NASA-TW-D-1923 N63-19180 18-30

SECOND STAGE ENGINE CHARACTERISTICS EFFECT DN TRAJECTORY SHAPE, WEIGHT AT CUTOFF AND CONTROL HISTORY OF CIRCULAR ORBITING VEHICLE MASA-TH-X-50407 M63-21728 22-22

TECHNIQUE FOR OPTIMUM FINAL VALUE CONTROL OF POWERED FLIGHT TRAJECTORIES NASA-CR-51563

TRAJECTORY MEASURING SYSTEM
REDUCTION OF COMPUTATIONAL AND DATA TRANSMISSION
REQUIREMENTS FOR TRAJECTORY ESTIMATION USING

MULTIPLE SITES - TRAJECTORY MEASURING SYSTEM MIT-22G-10 N63-21292 21-04	N63-22411 23-J
TRANSCENDENTAL FUNCTION ECONOMIZATION OF INTEGRALS OF TRANSCENDENTAL	TRANSEQUATORIAL PROPAGATION TRANSEQUATORIAL RADIO PROPAGATION BY BACKSCATTER TONOSONDE
HYPERGEOMETRIC FUNCTIONS - ERROR ANALYSIS N63-16326 13-20	AFCRL-62-343 N63-11891 04-6
SYNTHESIS OF MINIMUM ENERGY CONTROLLER SUBJECT TO POWER CONSTRAINT - FEEDBACK CONTROL SYSTEMS,	CROSS- & AUTO-CORRELATION EFFECTS ASSOCIATED WITH ANOMALOUS TRANSEQUATORIAL PROPAGATION AT 16 MC/S AFCRL-62-344 N63-11892 04-0
COMPUTATION OF TRANSCENDENTAL EQUATIONS N63-18912 18-09	TRANSEQUATORIAL PROPAGATION ANALYSIS - IONOSPHERI HEIGHT AND FREQUENCY PLOTS
TRANSDUCER SA PRESSURE TRANSDUCER	AFCRL-62-345 N63-11893 04-1
TRANSDUCER SYSTEM FOR MEASURING SKIN TEMPERATURE OF WING PANEL AND LEADING EDGE OF DYNA-SDAR WENICLE DURING REFRIRY	LUNAR CONTROL OF TRANSEQUATORIAL PROPAGATION — RADIO — BACKSCAYTER AFCRL-62-346 N63-11894 04-4
ATL-0-861 N63-11421 03-15	TRANSEQUATORIAL PROPAGATION ANALYSIS - RAY
TRANSDUCERS FOR HIGH VELOCITY GAS FLOW TEMPERATURE MEASUREMENT WITH DESIGN CRITERIA DETERMINED FROM THEANOCOUPLE MEASUREMENTS M63-12272 05-11	TRACING AND MODE AFCRL-62-347 N63-11895 04-
TRANSDUCER FOR VARIABLE PRESSURES IN HIGH TEMPERATURE FLOWS	FIELD ALIGNED IONOSPHERIC IRREGULARITIES AND TRANSEQUATORIAL PROPAGATION OF HIGH FREQUENCY RADIO WAVES
ONERA-91 N63-12634 06-15	AFCRL-62-353 N63-11900 04-
INTERLEAVED-PLATE ELECTRODYNAMIC TRANSDUCER NEL-1151 N63-13012 07-15	TRANSFER S CHARGE TRANSFER S ELECTRON TRANSFER
CAPACITIVE TRANSDUCERS FOR NARROW BAND VIBRATORY DISPLACEMENT OUTPUT OF ANGULAR MOTION SENSORS — ENERGY DENSITY CALCULATION FOR PARALLEL PLATE TYPE ESL—R-153 08-15	S HEAT TRANSFER S INTERPLANETARY TRANSFER S MASS TRANSFER S MOMENTUM TRANSFER S PROPELLANT TRANSFER
AIRBORNE RADIOACTIVITY FROM NUCLEAR TEST - TRANSDUCER MEASUREMENT PLATFORM - NRL REPORT N63-13607 08-01	S RADIATION TRANSFER- TRANSFER FUNCTION
TRANSDUCER MEASUREMENT PLATFORM FOR SONAR FACILITY N63-13609 08-15	METHOD FOR AMPLITUDE-FREQUENCY FILTER TRANSFER FUNCTIONS R-151 N63-10080 01-
TEMPERATURE AND HEAT TRANSFER MEASUREMENTS IN	DISTRIBUTED RC NETWORKS WITH RATIONAL TRANSFER
ROCKET NOZZLE THROATS AND EXIT COMES - INSTRUMENTATION TECHNIQUES, CHAR ANALYSIS NAVMEPS-8022 N63-13629 08-13	FUNCTIONS R-153 N63-10081 01-
EFFECT OF NUCLEAR RADIATION ON TRANSDUCERS AND	SYNTHESIS OF TRANSFER FUNCTIONS USING IMMITTANCE OPERATORS
ESTIMATION OF VALUES OF RADIATION THRESHOLDS REIC-25 N63-15866 13-15	AFCRL-62-320 N63-10137 01-
EVALUATION OF PRESSURE PULSE TRANSDUCERS BY MEASURING SEISHIC MAVE TRAVEL TIMES - SEDAN	REPRESENTATIONS FOR CLASS-K TRANSFER FUNCTIONS AFCRL-62-770 N63-10190 01-
PROJECT PNE-235F N63-16203 13-12	APPROXIMATE LONGITUDINAL TRANSFER FUNCTIONS FOR FLEXIBLE AIRFRAME
INSTRUMENTATION FOR DYNAMIC DATA ACQUISITION ON	ASD-TDR-62-279 N63-10749 02-
ARTILLERY AND ROCKET LAUNCHER WEAPONS - TRANSDUCERS AND RECORDERS N63-16606 14-15	NOISE SPECTRUM AND TRANSFER FUNCTION ANALYSIS OF GAS-COOLED REACTOR AND ARMY REACTOR ML-1 AGN-TM-399 N63-12602 O6-
EVALUATION OF DUEL ELEMENT TRANSDUCER FOR HIGH TEMPERATURE GAS MEASUREMENTS	REFLECTED REACTOR KINETICS - TRANSFER FUNCTION
ARL-63-58 N63-17470 15-15	DERIVATION NAA-SR-7263 N63-14342 10-
BROADBAND VARACTOR PARAMETRIC AMPLIFIER - TRANSDUCER POWER GAIN, SINGLE & MULTIPLE VARACTOR	MEASURING HUMAN TRANSFER FUNCTIONS - DETERMINATI
AMPLIFIER PIBMRI-109-62 N63-18252 17-09	OF VARIABLE GAINS USING ANALOG AUTOPILOT AND HUR PILOT OPERATING FLIGHT SIMULATOR CONTROLS NASA-TN-D-1782 N63-15241 11-
TRANSDUCERS CAPABLE OF SMALL FLOW RATE MEASUREMENT FROM LEAKS IN FLANGES OF SATURN ENGINE SYSTEMS NASA-TM-X-50421 N63-21915 22-27	TRANSFER FUNCTIONS IN MATHEMATICAL SIMULATION FO RELIABILITY PREDICTION - DISTRIBUTION, INTEGRAL, AND FREQUENCY FUNCTIONS
YAW & PITCH ANGLE TRANSDUCER - WIND TUNNEL & LABORATORY TESTS AT TRANSDNIC AND SUPERSONIC	RADC-TDR-63-87 N63-15327 12-
SPEEDS NASA-TM-X-50866 N63-22196 23-02	TRANSFER FUNCTION FOR DIRECT CURRENT OPERATIONAL AMPLIFIER WITH GENERALIZED EXTERNAL NETWORKS IDO-16809 N63-15886 13-
INDUCTIVE ENERGY STORAGE, SUPERCONDUCTORS,	THE CONTROL OF THE PERSON OF THE PROPERTY OF THE PERSON OF
MAGNETOHYDRODYNAMICS, TRANSDUCERS, SWITCHING & CONTROL RESEARCH IDA/HQ-63-1412 N63-22280 23-01	RECTAMOULAR TRANSFER MATRIX FOR N-PORT NETWORK NYU-TR-400-75 N63-19006 18-
SKIN FRICTION TRANSDUCER FOR USE IN HYPERSONIC	TRANSFER FUNCTION SYNTHESIS FOR LINEAR DYNAMIC SYSTEM AS RATIO OF TWO POLYNOMIALS
SHOCK TUNNEL CAL-129 N63-22395 23-15	ANL-6716 N63-19825 19-

OXYGEN DETECTOR USING PHYSICAL TRANSDUCERS

VOLTAGE REGULATOR DIDDE TESTING SYSTEM -MEASURING VOLTAGE BREAKDOWN, ENERGY TRANSFER, 23-14 TTER

04-08 NETH IC/5 04-08

HERIC

04-12

04-08

Tibes

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1-09 CE 1-09 --20

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-23

-14 IR 20

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20

TRANSIENT RESPONSE OF POR-B EARPHONES - ONSET

uncertal - nationalistic savierus	
AND TRANSFER TIME TR-1145 N63-2002Z 19-09	OURATION OF AUDITORY STIMULT CARI-63-7 H63-19380 18-08
APPLICATION OF FLEXIBLE AIRFRAME TRANSFER FUNCTION APPROXIMATIONS & SENSITIVITY OF AIRFRAME TRANSFER FUNCTIONS TO ELASTIC MODE SHAPES	PERTURBATION EQUATIONS FOR TIME-AVERAGE STATE OF THE ATMOSPHERE INCLUDING EFFECTS OF TRANSLENT DISTURBANCÉS N63-19573 19-21
ASD-TDR-63-334, PT. II N63-21693 22-02 HUMAN PILOT TRANSFER FUNCTION IN CLOSED LOOP	TRANSIENT MOTION OF SPACE-CHARGE IN PULSE-
SINGLE DEGREE OF FREEDOM ATTITUDE CONTROL SYSTEM NASA-TN-D-1952 N63-22136 22-14	IRRADIATEO GAP MHD-636 R63-20839 21-24
99.77	TRANSIENT BEHAVIOR OF NATURAL CIRCULATION LOOP OPERATING NEAR THERMODYNAMIC CRITICAL POINT ANL-6710 N63-22756 23-11
DESCRIPTION DESCRIPTION FOR THE ANGEST OF STREET OF	HYDRAULIC LINE DYNAMICS - TRANSIENT RESPONSE
SA CONFORMAL TRANSFORMATION	AND INSTABILITY NASA-CR-52148 N65-23672 24-11
SA LINEAR TRANSFORMATION SA LORENTZ TRANSFORMATION CF INVERSION	TRANSISTOR CF SENICONDUCTOR SEATHER SENICATING MUSHAMASS
CONDITION FOR MYE-DELTA TRANSFORMATION - NETWORKS	STABLE, TRANSISTORIZED LOW VOLTAGE REGULATOR DOFL-R940-62-2 N63-11675 04-09
HRC-383 N63-15909 13-20	IRRADIATION EFFECTS OF 40 AND 440-MEV PROTENS ON TRANSISTORS
TOPOLOGICAL TRANSFORMATION TENSORS - COMPACT GROUP BEHAVIOR AS DIFFERENTIAL OPERATORS	NASA-TN-D-1490 N63-12194 05-23
AROD-2056-13 N63-18724 17-20	SEMICONDUCTING FILM TRANSISTOR OF CADMIUM SULFIDE AFCRL-62-965
TRANSFORMER CF AMPLIFIER CF CONVERTER	SILICON, GROWN-JUNCTION, DIFFUSED-BASE TRANSISTORS WITH HIGH INPUT INPEDANCE - USED IN COMMON
TUNNEL DIODE DISCRIMINATOR CIRCUIT	COLLECTOR AMPLIFIER CIRCUIT MRL-TOR-62-3 No3-13810 09-09
RESONANT FREQUENCY EQUATION FOR RIGHT CIRCULAR	SEVEN-TRANSISTOR VOLTAGE STABILIZER WITH GUTPUT
CYLINDERS OF ANY DIMENSION - MICROMINIATURE GERAMIC PIEZOELECTRIC FILTER & TRANSFORMER DESIGN	POMER OF 25 WATTS NASA-TT-F-155 N63-1421C 09-09
TR-1108 N63-14559 10-09 SPACE SCIENCE - PROPELLANT FLOW METER - INTERVAL TRANSFORMER GAGE N63-16008 13-15	TELEMETRY COMPONENTS PERFURMANCE IN BLACK BRANT III ROCKET DYNAMIC FIRINGS - TRANSISTOR TRANSMITTER & ANTENNAS
DIRECT CURRENT SILICON CONTROLLED RECTIFIER	TRANSMITTER & ANTENNAS ERE-626
	ELECTRONIC SWITCHES WITH COMPLEMENTARY TRANSISTORS - APPLICATION, CIRCUITS, EFFECT OF TEMPERATURE, CHARACTERISTICS - NOS-15108 - 11-07
CERAMIC TRANSFORMERS IN 18 TO 77-KC FREQUENCY RANGE ST-144 N63-20474 20-09	PROTON RADIATION DAMAGE IN SEMICONDUCTING TRANSISTOR DEVICES - RADIATION HAZARD NO3-15127 11-25
TRANSIEMT PRESSURE BUCKLING OF MISSILE SHELL STRUCTURES UNDER TRANSIEMT PRESSURE FURNISHED BY IMPULSE GENERATOR IR-62-17 N63-14643 10-33	EVAPORATED THIN-FILM TRANSISTOR - DESIGN AND OPERATION AFCRL-63-67 N63-13480 12-09
DYNAMIC RESPONSE OF TRANSIENT PRESSURE TRANSDUCERS FOR LIQUID PROPELLANT ROCKET COMBUSTION CHAPBERS NASA-CR-51516 W63-21974 22-27	MATHENATICAL ANALYSIS OF NUCLEAR RADIATION, NEUTRON DAMAGE TO TRANSISTORS TR-975, SUP. 1 N63-15513 12-09
TRANSIENT PRESSURE MEASURING METHODS APPLIED TO LIQUID PROPELLANT ROCKET CUMBUSTION CHAMBERS NASA-GR-51515 N63-22047 22-11	FAILURE MECHANISMS IN ELECTRONIC COMPONENTS AAD MATERIALS - TEST METHODS DEVELOPMENT, RESULTS FOR SCHICONDUCTORS, TRANSISTORS, DEDDES, FERRITES RADC-TOR-63-30 N63-16106 13-25
TRANSIEMT REACTOR TEST /TREAT/ FACILITY ANALYSIS OF TRANSIEMT EFFECTS IN FAST HEACTOR FUELS	INTERFERENCE SUPPRESSION IN ELECTRONIC APPARATUS
GEAP-4058 109-26	AND CIRCUITS - TRANSISTORS, PERRITE DEVICES, CRYSTAL MIXERS RADC-TOR-62-221 - CO - C
TRANSIENT RESPONSE CONSTRUCTION OF AN AUTOMATIC CONTROL SYSTEM WITH	MICROELECTRONICS RED - CIRCUIT REDUNDANCY 6
TRANSIENT CLOSE TO OPTIMAL N63-10338 01-09	ADAPTATION, SURFACE-FIELD EFFECT TRANSISTOR, SUPERCONDUCTIVE TRAPPED FLUX HEMORY
NUCLEAR EXPLOSION - TRANSIENT RESPONSE OF ELASTIC SOLID HALF-SPACE SUBJECTED TO SURFACE PRESSURE - RAYLEIGH MAVE N63-17325 15-23	POWER TRANSISTOR CONLING IN SPACE ENVIRONMENT MITH HEAT SINK RADIATION AND CONDUCTION AS MODE OF
	HEAT TRANSFFR NASA-TN-D-1753 N63-18459 17-01
EXTREME TEMPERATURE ENVIRONMENT	TRANSISTORIZED LOW MOISE CONSTANT TEMPERATURE HOT MIRE ANENOMETER
DISTURBING TORQUES AND TRANSIENT RESPONSE OF	OVL-287 41 271192 TOH OWA AMODRALAM TAAGUDJIS
GRAVITY GRADIENT-STABILIZED SATELLITES N63-19005 18-32	EVAPORATED THIN-FILM TRANSISTORS 4 ACT 21 CM AT A FCRL -63-178 N63-1988C 19-29

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TRANSISTORIZED POWER AMPLIFIERS FOR CHFMICAL ANALYSIS DP-798 N53-20396 20-09	HIGH VACUUM DEPOSITED ACTIVE THIN FILM SEMICONDUCTORS, DIODES, AND TRANSISTORS Q445-4 N63-22633 23-9
TRANSISTORIZED FOUR-CHANNEL AUDIO AMPLIFIER WITH AUTOMATIC GAIN CONTROL ER-2916, REV. N63-20616 20-08	SILICON ALLOY TRANSISTORS - PRODUCTION ENGINEERING MEASURES TO IMPROVE RELIABILITY N63-22794 23-00
SEMICONDUCTOR MANUFACTURING - SILICON DIFFUSED	SILICON POWER TRANSISTOR THERMAL INSTABILITY - MR SPOTS & RESISTANCE SUPPRESSION
SEMICONDUCTOR MANUFACTURE - SILICON DIFFUSED	RADC-TDR-63-350 N63-22821 23-m
TRANSISTOR RELIABILITY N63-21166 21-09 IMPROVING RELIABILITY OF SILICON-ALLOY POWER TRANSISTORS N63-21176 21-09	SPUTTERING IMPURE SILICON DIOXIDE FILM ONTO GALLIUM ARSENIDE MAFERS AND DIFFUSION IN FLOWING HYDROGEN ATMOSPHERE - TRANSISTCR DEVELOPMENT TI-08-63-62 N63-22942 23-00
GERMANIUM-ALLOY POWER TRANSISTOR PRODUCTION ENGINEERING N63-21192 21-09	TI-08-63-62 N63-22942 23-01 FABRICATION OF GALLIUM ARSENIDE TRANSISTOR TI-08-63-102 N63-22943 23-01
GERMANIUM EPITAXIAL MESA-TRANSISTORS AND SILICON NOM-PLANAR EPITAXIAL TRANSISTORS - PROGRESS IN ENGINEERING AND RELIABILITY N63-21193 21-09	RELIABILITY IMPROVEMENTS FOR GERMANIUM TRANSISTORS - APRIL TO JULY 1963 N63-22959 23-0
IMPROVEMENT OF GERMANIUM-ALLOY POWER TRANSISTOR N63-21195 21-09	TRANSISTORIZED POWER AMPLIFIER AND PHASE SHIFTER RADC-TDR-63-16 N63-23109 24-9
SILICON PLANAR EPITAXIAL AND SILICON GROWN DIFFUSED TRANSISTORS - RELIABILITY MEASUREMENTS	FASRICATION OF GALLIUM ARSENIDE TRANSISTORS TI-08-63-20 N63-23116 24-8
AND EXPERIMENTAL EVALUATION N63-21199 21-09 SILICON PLANAR EPITAXIAL AND SILICON GROWN	LOW TEMPERATURE VAPOR DEPOSITION IN EPITAXIAL
DIFFUSED TRANSISTORS - DEVELOPMENT, RELIABILITY MEASUREMENTS, AND EVALUATION N63-21200 21-09	AFCRL-63-363 N63-23179 24-8
TRANSISTORIZED RIOMETER ABSORPTION MEASURING EQUIPMENT - CALIBRATION, DIGITAL DATA CONVERSION, AND ANTENNA SYSTEM	PULSED NUCLEAR RADIATION EFFECT ON PROPERTIES OF SILICON & GERMANIUM TRANSISTORS N63-23419 24-0
AFCRL-63-177 . N63-21394 22-12	FAILURE OF TRANSISTORS USED IN VARIOUS SOLID-STATE
RELIABILITY OF SILICON PLANAR EPITAXIAL TRANSISTOR N63-21422 22-09	CIRCUITS RADC-RAS-TM-63-5 N63-23661 24-8
TRANSISTOR RELIABILITY, MANUFACTURING IMPROVEMENT, FAILURE ANALYSIS AND ANALYTICAL-EMPIRICAL SURFACE STUDY N63-21423 22-09	TRANSISTOR CIRCUIT TRANSISTORIZED CONTROL SYSTEMS FOR DATA STORAGE DEVICE USING PIEZGELECTRICS JPRS-17323 M63-12189 05-11
ACTUATOR WITH TRANSISTORIZED AMPLIFIER N63-21628 22-23	MICROPONER TRANSISTOR LOGIC CIRCUITS FOR SPACEBORNE COMPUTERS
OPERATING, STORAGE LIFE, AND ENVIRONMENTAL TESTS PERFORMED ON PILOT LINE TRANSISTORS N63-21690 22-09	NASA-TN-D-1462 N63-12704 06-81 MICROPOMER TRANSISTOR LOGIC CIRCUITS FOR SPACE SCIENCE APPLICATION N63-14976 11-81
INPROVING PRODUCTION METHODS FOR 291708 SILICON PLAMAR EPITAXIAL TRANSISTOR N63-22015 22-09	SURFACE EFFECTS OF RADIATION ON SEMICONDUCTING TRANSISTOR CIRCUITS - RADIATION HAZARD
RELIABILITY IMPROVEMENT FOR GERMANIUM TRANSISTORS No.3-22039 22-09	N63-15124 11-8 PROTON BOMBARDMENT ON TRANSISTOR CIRCUITS AT 40
SIX-CHANNEL TRANSISTORIZED AUDIC AMPLIFIER DESIGN ER-2918, REV. N63-22045 22-09	AND 440-MEV IN RADIATION BELT N63-15126 11-8
JET ETCH TRANSISTOR RELIABITY IMPROVEMENTS N63-22094 22-09	RESPONSE OF P-N-P-N TRANSISTOR SWITCH TO PULSED NUCLEAR RADIATION - RADIATION EFFECT N63-20233 20-09
TRANSISTOR - SEMICONDUCTOR INTEGRATED LOGIC NETS AFCRL-63-331 N63-22360 23-09	TRANSISTORIZED CONVERTER FOR VERY LOW INPUT
RELIABILITY IMPROVEMENTS FOR GERMANIUM	NASA-CR-50936 N63-21309 21-0
TRANSISTORS - JULY TO OCT 1962 N63-22362 23-09	APPLICATION OF TRANSISTORS AS LOW-LEVEL SIGNAL SMITCHES — SOLID STATE CIRCUITS RG-TR-63-16 A63-22458 23-89
RELIABILITY IMPROVEMENTS FOR GERMANIUM TRANSISTORS - OCT 1962 TO JAN 1963 N63-22363 23-09	RG-TR-63-16
RELIABILITY IMPROVEMENTS FOR GERMANIUM TRANSISTORS - JAN TO APRIL 1963	COMPUTERS ACL-MEMO-78 N63-23058 24-8
N63-22364 23-09	TRANSIT SATELLITE ENVIRONMENTAL TESTING PROCEDURES FOR TRANSIT
EVALUATION OF TRANSISTORIZED AUDIO AMPLIFIER N63-22412 23-08	SATELLITE PAYLOAD EQUIPMENT TG-416-A N63-11735 04-H
SECONDARY BREAKDOWN AND HOT SPUTS IN POWLR TRANSISTORS N63-22548 23-09	PRECISION TIME AND FREQUENCY APPLICATIONS IN TRANSIT AND ANNA SATELLITE PROGRAM TG-459 N63-11960 05-22
SILICON PLANAR EPITAXIAL TRANSISTOR IMPROVEMENT	TG-459 N63-11960 05-22

NONHILITARY NAVIGATION BY SATELLITES - TRANSIT

SILICON PLAMAR EPITAXIAL TRANSISTOR IMPROVEMENT N63-22571 23-09

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5-21

MAGNETIC PROPERTIES OF RARE EARTH AND TRANSITION AS ELEMENT IONS - ELECTRON PARAMAGNETIC & NUCLEAR MAGNETIC RESONANCE, RELAXATION & SUSCEPTIBILITY AFCRL-63-192 M69-19411 19-01 SATELLITES - METEOROLOGICAL SATELLITES N63-13743 08-22 CATALOG OF SATELLITE OBSERVATIONS, NO. C-33 10-32 GROWTH OF SINGLE AND POLYCRYSTALS OF RARE-EARTH METALS AND TRANSITION ELEMENTS RELIABILITY OF TRANSIT NAVIGATION SATELLITE SYSTEM MANAGE 19412 19-18 MICROWAVE RESONANCE INVESTIGATIONS OF MAGNETIC MATERIALS HAVING SINGLE CRYSTAL STRUCTURE - RARE EARTH METALS & TRANSITION ELEMENTS INCREASE IN TRANSITION TIME EXPLAINED BY EXISTENCE OF DISTURBANCE ON SHOCK TUBE WALLS N63-12749 19-23 DEFECTS IN DIELECTRIC CRYSTALS OF RARE-EARTH 6 TRANSIT TIME EFFECTS IN PHASED ARRAYS MA3-14554 14-05 MADC-TDR-63-67 PHYSICAL AND PREPARATIVE PROPERTIES OF TRANSITION NETAL CHELATES - MOLYBDEHUM, TUNGSTEN, AND MICKEL COMPOUNDS ELECTRON TRANSIT TIME IN LANGMUIR PROBE FOR SUPERIMPOSED OSCILLATING FREQUENCY POTENTIAL ABOVE COMPOUNDS ARL-63-160 ELECTRON PLASMA FREQUENCY M63-22397 N63-18025 16-24 ISSION AND MADICATOR RESONANCE PROBE THEORY EXTENDED TO FINITE TRANSIT TRANSITION LAYER
PHOTOGRAPHIC AND PRESSURE STUDIES OF INSTABILITY
IN TRANSITION REGIONS OF TRANSONIC STREAM IN
SUPERSONIC FLOW FIELD
N63-12267 05-1 N63-22913 23-24 ISITION
BOUNDARY LAYER TRANSITION
ELECTRON TRANSITION
OPTICAL TRANSITION
OPTICAL TRANSITION
TRANSITION
TRANSITION CALCULATION OF TURBULENT BOUNDARY LAYER AND TRANSITION LAYER OF A FLAT PLATE - DETERMINATION OF A CONSTANT FOR FRICTION N63-14022 11-02 LAMINAR, TRANSITIONAL, AND TURBULENT HEAT TRANSFER AFTER A SHARP DISCONTINUITY PIBAL-771 N63-20594 20-11 MANSITION ELEMENT NADAW FAMICE CALCULATION OF THE PARTY NAMED SA AMERICIUM SA CHROMIUM SA COBALT PRESSURE MEASUREMENT IN TRANSITION AND FREE
MOLECULE FLOWS AT SUBSONIC SPEEDS USING GRIFTCE FEASIGILYY IN MULTIPLESING TELETYPE MATA MONEPLESH JING OF YORGDED SHEECH ARMISHS AFEKT-657400 HAFNIUM PROBES UTIA-TH-6749 MT THRESHIENED DEA M63-22671H3 23-11 IRIDIUM IRON MANGANESE TRANSITION POINT
SPECIFIC HEAT OF ALUMINUM MEAR ITS SUPERCONDUCTIVE
TRANSITION POINT
N63-11309 03-18 STEP FREQUENCY SOUNDER FOR LING RANGE SA NICKEL

SA PALLADIUM: SG-SGM

OL-3-7-41-X177 PLATINUM
PROTESTOR A PRICE PLATING STATES OF S STABILITY OF MAGNESIUM-LITHIUM BASE ALLDY AT HIGH TEMPERATURES DURING TRANSITION PHASE SA RHENTUM RUTHENIUM VISCOELASTICITY OF GALEX ORGANIC GLASS - SHEAR COMPLIANCE TEST RESULTS - TRANSITION TEMPERATURE ONR-TR-RLT-59 N63-16553 14-19 SA SCANDIUM SA TITANTUM
SA TUNGSTEN
SA VANADIUM FLOW STRESS, TRANSITION TEMPERATURE, AND GRAIN ABOUNDARY MARDENING OF SILVER-MAGNESIUM ALLUYS MADD-TR-60-184, PT. IV N63-16667 14-18 SA ZIRCONIUM CF METAL HYDRIDES OF THE TRANSITION METALS EFFECT OF IMPURITIES AND CRYSTAL STRUCTURE ON HOLITENSILE TRANSITION TEMPERATURE OF CHRONIUM NASA-CR-50094 600 N63-17213 15-18 N63-11346 03-07 RHENIUM-III CHLORIDE VAPOR PRESSURE AND STANDARD HEAT AND ENTROPY OF SUBLIMATION - TRANSITION HETAL HALIDES
AROD-2757-1 N63-13435 08-07 RAREFIED GAS DYNAMICS - BORDERS OF FREE MOLECULAR TRANSITION REGION 100 M63-21605 22-02 NETHOD FOR AUTOMATIC CONSTRUCTION OF SYNTAX OF SYNTAX AFCRL-02-955 TRANSLATION SUPERCONDUCTIVITY IN METALS AND ALLOYS - KAPITZA RESISTANCE MEASUREMENTS IN TIN AND INDIUM, ON TRANSITION CHANGE, AND SAPPHIRE INSULATOR ASD-TDR-62-1111 N63-14245 10-18 TRANSLATIONAL EFFECTS OF AIR BLAST FROM HIGH EXPLOSIVES ACTIVATED SINTERING AND DENSIFICATION OF TUNGSTEN WITH TRANSITION ELEMENTS N63-14671 10-1 DASA-1336 N63-14840 11-26 PHASE RELATIONSHIPS IN ACTIVATED SINTERING OF TUNGSTEN, IRON & COBALT - TRANSITION ELEMENTS COMPARED N63-14673 10-18 OSCILLATORY AERODYNAMIC DERIVATIVES FOR WING MITH CONTROL SURFACE - PITCH TRANSLATION AND ROTATION ARC-REN-3307 M63-15744 12-03 TRANSLATION INVARIANT SUBSPACES OF FINITE
DIMENSION - THEOMEN PROVED USING LINEAR
DIFFERENTIAL EQUATION CHARACTERISTICS OF TRANSITION ELEMENTS IN SOLUTION — CHEMICAL ANALYSIS OF RHODIUM, PALLADIUM AND RUTHENIUM AFCRL-63-456 N63-16977 14-07 N63-19319 - 18-20 TRANSLUCENT MATERIAL

PROPERTIES OF PURE DXIDE POWDERS OF ALUMINUM,
BERYLLIUM, AND MAGNESIUM IN DENSE TRANSLUCENT FORM
SSD-TDR-63-191

TRANSMISSION
SA COMMIAL TRANSMISSION
SA COMERENT TRANSMISSION HARDNESS BEHAVIOR OF CHROMIUM ALLOYS - BINARY
ALLOYS CONTAINING TRANSITION ELEMENTS
NASA-CR-50154 15-18 NECHANICAL AND THERMODYNAMIC PROPERTIES OF REFRACTORY ALLOYS OF TRANSITION METALS AND CARBIDE - BIBLIOGRAPHY N63-17569 16-18

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TR

NUMERICAL COMPUTATION OF TRANSMISSION & REFLECTION COEFFICIENTS OF INHONOGENEOUS PLASMA LAYER — APPLICATION TO TELEMETRY PROBLEM IN REENTRY R-31 N63-20440 20-24

SA DATA TRANSMISSION: AAT AMAR NA 2317A2900A 3172A3AA	WAVEFORMS FOR POLARIZED LIGHT TRANSMISSION THROWS
SA POWER TRANSMISSION	CONSTANT AND TIME VARYING PAIR OF BIREFRINGENT
SA SATELLITE TRANSMISSION PROBLEMS OF INFORMATION TRANSMISSION	AROD-223-7 N63-18909 18-23
ABSORPTION AND TRANSMISSION OF ELECTROMAGNETIC	MULTIPLEX TRANSMITTER ENVELOPE DETECTOR USING IDEAL DIODE RADC-TOR-63-222 N63-19630 19-88
ABSORPTION AND TRANSMISSION OF ELECTROMAGNETIC WAVES RADC-TOR-62-529 N63-10569 01-23	RADIC TOR-63-222 N63-19630 19-69 RADIO DUCT /ABNORMAL MICROWAVE TRANSMISSION/ ON A
MULTIPLEX TECHNIQUE FOR TELEMETRY - MAYEFORMS	RADIO DUCT /ADNORMAL MICKUMAVE TRANSMISSIOM/ ON A WEATHER RADAR PLAN POSITION INDICATOR /PPI/ RSIC-38 N63-19721 19-21
RAPHICAL PRESENTATIONS OF C-BAND TRANSPONDER STUDY FOR APOLLO SPACECRAFT NO3-12815 06-08	SINULATION EXPERIMENTS IN TWO-WAY CONTROLLED CARRIER TRANSMISSION - TROPOSPHERIC SCATTER TRANSMISSION IMPROVEMENTS
INFRARED TRANSHISSION STUDIES - VOL 2, ABSORPTION	AFCRL-63-159 N63-19806 19-08
OF WATER VAPOR SSD-TDR-62-127, VOL. II N63-13211 07-23	GATHERING MICROWAVE PROPAGATION AND TRANSMISSION DATA FOR AIRBORNE COMMUNICATIONS SYSTEMS N63-20591 20-08
ELECTRICAL TRANSMISSION AND RADIATIVE PROPERTIES OF HYPERSONIC PURE AIR WAKES AS A RESULT OF CHEMICAL MANAGONI TRATING	N63-20391 20-01 SIGNAL DETECTION BY PILOTS - LIGHT SOURCE AGAINST CITY LIGHT BACKGROUND - VISUAL PERCEPTION
CHEMICAL MONEQUILIBRIUM R62SD989 - A CONTROL OF THE NAME OF THE NA	CITY LIGHT BACKGROUND - VISUAL PERCEPTION N63-20690 20-14
RESPONSE OF OTOLITH ORGANS OF CAT TO TILTED POSITION	INFLUENCE OF LOW-FREQUENCY VIBRATION UPON SPEECH TRANSMISSION
SAM-TOR-62-132 N63-13588 08-16	AMRL-TDR-63-49 N63-21059 21-08
TIME-RESPONSE OF TRANSMISSION-TYPE DYNODE USING POTASSIUM CHLORIDE FOR HIGH SPEED COUNTING N63-13592 08-23	TRANSMISSION OF U.N. GENERAL ASSEMBLY OPENING BY RELAY I AND SYNCOM II VIA TELEVISION AND RADIO N63-21991 22-08
SYMPOSIUM ON APPLICATION OF ELECTROMECHANICS TO PHYSIOLOGY, CODING, TRANSMISSION, AND TELEMETRY LBBC-1312	RADAR RANGE CALCULATION JPRS-21139 N63-22101 22-08
JPRS-13512 N63-14014 09-09 SPACE-CHARGE LIMIT AND CONFINEMENT IN PARTICLE	FEASIBILITY OF MULTIPLEXING TELETYPE DATA INTO
ACCELERATION WITH HIGH-INTENSITY LIGHT WAVES - LASER RADIATION FOR ACCELERATION	AFCRL-63-300 N63-22192 23-08
SLAC-12 N63-14556 10-23	STEP FREQUENCY SOUNDER FOR LONG RANGE IONOSPHERIC TRANSHISSION FEIK-IB-4-F-10 NA3-22298 23-08
OPTICAL PROPERTIES OF QUADRUPOLE MULTIPLETS FOR SECTOR FOCUSING IN THE TWO-MILE ACCELERATOR SLAC-14 10-23	FFIK-IR-K-E-10 N63-22298 23-09 DOUBLE-SIDEBAND REACTIVE MIXING - SIGNAL
FREQUENCY ASSIGNMENT FOR COMMUNICATION SATELLITE	TRANSMISSION & INTERACTION AT THREE OSCILLATING
AND GROUND STATION - TROPOSPHERIC SCATTER, TERRAIN SHIELDING, AND MICROWAVE TRANSMISSION	TR-134 N63-22370 23-09 ATMOSPHERIC TRANSMISSION CURVES FOR METERROLOGICAL
MEASUREMENT TO GC/S NICROWAYE TRANSMISSION - HISTOR	ATMOSPHERIC TRANSMISSION CURVES FOR METEOROLOGICAL CONDITIONS KE-TR-63-13 N63-22605 23-21
MEASUREMENT 10 GC/S MICROWAVE TRANSMISSION - USING HALL EFFECT IN SEMICONDUCTOR CRYSTALS M63-15111 11-25	KE-TR-63-13 N63-22605 23-21 MATERIAL RED ON FAMILIES OF BRAZED AND WELDED
LIGHT TRANSMISSION AND REFLECTION CONSIDERATION	FITTINGS FOR ROCKET PROPULSION FLUID SYSTEMS RTD-TDR-63-1027 23-27
FOR AIR TRAFFIC CONTROL TOWER CAB DESIGN N63-15396 12-10	MICROWAVE RESEARCH - ACOUSTIC WAVE AMPLIFICATION,
100 KW L-BAND AMPLIFIER FOR PHASED ARRAY RADAR	OPTICAL MASERS, FERRITE NONLINEAR PROPAGATION ML-1060 N63-22911 23-25
SYSTEMS - FOCUSING AND TRANSMISSION POWER W-J-63-434R16 N63-16029 13-09	DIFFUSE REFLECTION AND TRANSMISSION OF LIGHT BY
TRANSMISSION OF OPTICAL MATERIALS AS AFFECTED BY WEDGE ANGLE AND REFRACTIVE INDEX IN 2 TO 15 MICRON	TWO ISOTROPIC MEDIA SEPARATED BY ROUGH SURFACE N63-23335 24-12
RANGE NAVWEPS-8086 N63-16101 13-25	LOGICO-MATHEMATICAL STUDY OF NEURONAL NETS AND NEURON FUNCTION LEADING TO PAUCINEURONAL LEARNING
CIRCUITS AND NETWORKS - IMPEDANCE, TRANSHISSION,	SYSTEMS - CYBERNETICS JPRS-21605 N63-23607 24-18
AND SCATTERING AFCRL-63-85 N63-16463 14-09	MULTIPLE ACCESS SATELLITE COMMUNICATION - ORBITAL
INFRARED SPECTROSCOPY - TRANSMISSION - SPECTRAL LINES AND ABSORPTANCE	CONSTRAINTS, MODULATION AND MULTIPLEXING REQUIREMENTS, & CALLING TECHNIQUES NASA-CR-52200 - 24-00
SSD-TDR-62-127, VOL, IV N63-16595 14-24	TRANSMISSION COEFFICIENT
INFRARED ATMOSPHERIC STUDIES - ATMOSPHERIC TRANSMISSION AT 6.3 AND 16 TO 24 MICRONS AFCRI-63-484 666 15-12	TRANSMISSION AND REFLECTION OF ELECTRONS BY ALUMINUM FOIL - COEFFICIENTS MBS-TN-187 M63-15566 12-18
NIMBUS SATELLITE - SYSTEMS DESIGN - DATA THESOLOGICAL	REFLECTION AND TRANSMISSION COEFFICIENTS FOR
ACQUISITION - TELEVISION TRANSMISSION - ORBITAL MECHANICS M63-18605 17-30	PLASMA LAYER R-46 M63-16790 14-24

INFRARED RADIATION TRANSMISSION - TRANSMITTANCE TABLES FOR STRATOSPHERE SSD-TDR-62-127, VOL. V N63-18722 17-12 9-01

N AU 9-21

9-01

ON 0-01 HST 0-14 CH 1-01 78 2-08 2-08

3-08 RIC 3-09 ea.i 1-09 CAL

3-21

-27 IN, -25

-12 NG

AL

-18

-24

ION

-24

FORTRAN COMPUTER PROGRAM FOR COMP TRANSMISSION, REFLECTION, AND ABS			FIVE KILOWATT C-BAND TRAVELING WAVE TUBE TELSTAR GROUND TRANSMITTER M63-112	FOR THE 19 03-09
COEFFICIENTS OF INHOMOGENEOUS PLA	SMA LAYER N63-23062	24-24	DETECTORS FOR VACUUM-ULTRAVIOLET - PHOTO- SCINTILLATION, TRANSMISSION WINDOWS	-ENISSION
TRANSMISSION COEFFICIENTS OF WIRE	MESH WAVE	ENERGY	BN-307 N63-118	14 FR 1 123-75
A63-44	N63-23704	24-23	INFRARED TRANSMITTING MATERIALS - DIELEC MECHANICAL PROPERTIES M63-119	TRIC AND 71 05-25
RANSHISSION LINE CF DELAY LINE	CHAIL TYTE COMP		MINIATURE TELEMETRY TRANSMITTER FOR UPPE ATMOSPHERE RESEARCH N63-130	
PHASE, ATTENUATION, IMPEDANCE CHA COAXIAL TRANSMISSION LINES WITH T CONDUCTORS			EXPERIMENT LUXEMBOURG II - CRYSTAL CONTR	18-17-N
AFCRL-62-359	MINISTER SOLIC	02-08	HIGH FREQUENCY PULSE TRANSMITTER FOR WAY INTERACTION EXPERIMENT	TRANSON VO - TRANSON
NONUNIFORM SECTION OF COAXIAL TRA AS IMPEDANCE MATCHING NETWORK FOR		INE	CAL-VC-1609-P-1 N63-142 LOW FREQUENCY HOMING BEACON TRANSMITTER	SEPALEE.
RADC-TOR-63-17	N63-12954	07-09	JIM PROJECT - AIR TRAFFIC COMTROL RAL-TM-63-1	(支持101円十二年
NONUNIFORM NON-LOSSY OR LOSSY TRA			TELEMETRY COMPONENTS PERFORMANCE IN BLAC	K. Stoff Ly
DEVICES RADC-TOR-63-123	N63-14494	10-08	BRANT III ROCKET DYNAMIC FIRINGS - TRANS TRANSMITTER & ANTENNAS ERB-626 N63-147	DIS TIM
THEORY OF LOG PERIODIC ANTENNA, C	IRCUITS, AN	13-09	DESIGN AND INSTALLATION OF HIGH POWER TR	
QUARTZ HELICAL DELAY TRANSMISSION	LINE FOR	THE THE	NAVY SPACE SYSTEM, KICKAPOD STATION NRL-5717 N63-149	M151653H
PROPAGATION OF HIGH FREQUENCY ULT RADC-TDR-62-553	RASONIC WAV N63-18676		ANALOG TELEMETRY TRANSMITTER - APPLICATI MOLECULAR ELECTRONICS TO PCM TELEMETRY	ON OF
THEORY OF LONG LINES WITH VARYING		ALONG	10-03 MASSES MASSES 15 PLM FEEDERS	19 12-08
TRANSMISSION LINES AND CIRCUITS AID-T-63-90	N63-19125	18-09	MOLECULARIZED PULSE-CODE MODULATION TELE TRANSMITTING SET NAME NAME NAME NAME NAME NAME NAME NAME	
NOISE SIGNAL AND CARRIER MODULATI		RICAL	RADIO COMMUNICATION DIPOLE ANTENNA - POM ABSORPTION AND LOSS DUE TO GROUND PROXIM	
	N63-19331	18-08	TRANSMITTER AND RECEIVER NBS-TN-175 N63-169	通行的公共有 有
NONUNIFORM TRANSMISSION LINE THEO		ARE TA	LOG-PERIODIC AND LOG-SPIRAL ANTENNA PROB	LEMS -
A10-T-63-96	N63-19460	19-08	WAVE PROPAGATION, TRANSMISSION, & RADIAT	10N 19-08
NONUNIFORM TRANSMISSION LINE THEO COMMUNICATION	N63-19461	19-08	SOLID STATE TRANSMITTING, RECEIVING, AND FREQUENCY SMITCHING N63-201	RADID 76 20-09
NONHONOGENEOUS TRANSMISSION LINE ON FREQUENCY CHARACTERISTICS			FREQUENCY SYNTHESIS FOR COMMUNICATION TR	washing the
SOUND WAVE PERTURBATIONS IN HYDRA			AND RECEIVERS RM-3756-PR M63-209	01 21-09
CLOSED-END SIDE BRANCH - FLOW & F			REFLECTOR PIPE FOR TRANSMITTING THERMAL FROM SOLAR COLLECTOR TO SPACECRAFT MITHO	
DESIGN TECHNOLOGY FOR CENTRIFUGAL VEHICLE POWER TRANSMISSION SYSTEM		FLIGHT	INTERMEDIATE CARNOT CYCLE LIMITED DEVICE	REVOLUE
AAC-4434	N63-20670	20-17	INTERMODULATION INTERFERENCE IN MULTITRA	INSMITTER-
THEORY FOR CALCULATING STEP TRANS TRANSMISSION LINES USING CHEBYSHI AID-T-63-105	V POLYNOMIA		MULTIRECEIVER ENVIRONMENT NASA-CR-50916 M63-210	61 21-09
DESIGN OF MICROWAVE BROADBAND EQU		21-20 IPOSED	DEVELOPMENT OF IMPLANTABLE TEMPERATURE I AND AN ACTOGRAPH FOR COCKROACHES - BIDIN	RAMSMITTER STRUMENTS
OF CASCADED TRANSMISSION LINES PIBMRI-1018-62	N63-20961	21-09	SO-SON SECRETARY STORM THEY WAS AND MOS-SIC	
DISTRIBUTED CONSTANTS OF MULTIWIE	E TRANSMISS	ION	TACTICAL AIR NAVIGATION TRANSMITTER ESD-TDR-63-609 N63-224	22 23-08
LINES & NETWORK SYNTHESIS PIBMR1-991-62	N63-21243	21-09	UTILIZATION OF MISSILE TELEMETRY CAPACIT DATA BAND WITH COMPRESSION AND TRANSMITT	
ANALYSIS AND SYNTHESIS OF ARBITRA	RILY TERMIN		BANDWIDTH RG-TR-63-17 N63-22	
RADC-TDR-63-394	N63-22131	22-09	TRANSONIC FLOW	C-CART TAGES
PHASE SHIFT AND INSERTION LOSS NRL-5867	N63-23154	AGNETIC CF FLUID MECHANICS BIBLIOGRAPHY - MATHEMAT	BIBLIOGRAPHY - MATHEMATICS, SUBSONIC AND	TRANSONIC
RANSHISSIVITY	W. Elbert	W18 - 15		737 04-20
TRANSMISSIVITY OF CARBON PARTICLE SPECTRAL TRANSMISSIVITY & TOTAL	RANSHISSIVI	TY	SMALL DISTURBANCE THEORY OF TRANSONIC FO	23455 THE
DETERMINED BY TOTAL RADIATION DE	N63-22313	23-27	NAL-TR-9T N63-1	WASA-TH-
RANSMITTER ESTIMATION OF VARIANCES FOR RADIO	Yet HERE, ORI		APPROXIMATION OF UNSTEADY TRANSONIC FLOR NONLINEAR SMALL DISTURBANCE THEORY NAL-TR-27 N63-11	0. 802200
FINDING EQUIPMENT	N63-10415	01-08	The state of the s	- ARC-REM-

TRANSMITTER
ESTIMATION OF VARIANCES FOR RADIO DIRECTION
FINDING EQUIPMENT
N63-10415 01-08

ROLLING EFFECTIVENESS OF AERODYNAMIC CONTROLS
OF FIGHTER AIRCRAFT WITH ROCKET-POWERED MODEL AT
TRANSONIC SPEED
NACA-RH-L51128
N63-13866
09-8

N63-13866 09-03

TR

T

T

T

16-02

DYNAMIC STABILITY OF PROJECT MERCURY TEST CAPSULE DURING REENTRY - DISPERSION AT TRANSONIC SPEED FOR PARACHUTE DEPLOYMENT NASA-TM-X-350 N63-17995 16-38

PHOTOGRAPHIC AND PRESSURE STUDIES OF INSTABILITY IN TRANSITION REGIONS OF TRANSONIC STREAM IN SUPERSONIC FLOW FIELD N63-12267 05-11

DESIGN OF WING-BODY COMBINATION OF LOW ZERO-LIFT DRAG RISE AT TRANSONIC SPEED

SEAPLANE

NASA-TH-X-218

ARC-REH-3279

The state of the s	NACA-RH-L31128 N63-13866 U9-
HUB-TIP RADIUS RATIO TRANSONIC TURBINE FOR SECONDARY FLOW - STATOR CONFIGURATIONS DESIGNED TO ELIMINATE BLADE WAKES AND SECONDARY-FLOW EFFECTS NACA-RM-E57G08 N63-12546 06-02	WIND TUNNEL TESTS TO IMPROVE STATIC DIRECTIONAL STABILITY OF UNSWEPT-WING AIRCRAFT AT MACH 0.8-2 NASA-MEMO-10-4-58A N63-13884 09-
HUB-TIP RADIUS RATIO TRANSONIC TURBINE FOR SECONDARY FLOW - TURBINE WITH LOW-VELOCITY TURNING STATOR AND STANDARD ROTOR	LIFT AND DRAG OF SWEPT-WING FIGHTER AIRCRAFT AT TRANSONIC AND SUPERSONIC SPEEDS NASA-MEMO-10-1-58H N63-13885 09-
NACA-RM-E57E09 N63-12547 06-02	TRANSONIC STATIC AERODYNAMIC CHARACTERISTICS OF
TRANSONIC FLOW CHARACTERISTIC STUDIES IN TRANSONIC TESTING SECTION OF TRISONIC WIND TUNNEL - FLUID MECHANICS	BLUNT CONE CYLINDER BODY WITH FLARED AFTERBODIES OF VARIOUS ANGLES AND BASE AREAS NASA-TM-X-106 N63-13892 09-
SM-41379-5 N63-15606 12-10	STATIC LONGITUDINAL STABILITY AND CONTROL
HIGH SPEED WIND TUNNEL TEST OF TARTAR/TERRIER HISSILE - TAIL FIN OSCILLATION IN TRANSONIC FLOW TM-348-33.6-11 N63-16747 14-03	CHARACTERISTICS OF AIR-TO-SURFACE CANARD MISSILE CONFIGURATION IN TRANSONIC RANGE NASA-TM-X-305 N63-13902 09-
LINEARIZED THEORY FOR UNSTEADY TRANSONIC FLOW MIT FLUID DYN. RES. LAB63-2 N63-17020 15-11	LENTICULAR-SHAPED REENTRY VEHICLE STATIC
TRANSONIC MAGNETOGASDYNAMIC FLOW IN INVISCID	TRANSONIC SPEEDS NASA-TM-X-423 N63-13906 09-
MEDIUM - LEADING AND TRAILING EDGE FLOW PATTERNS N63-18249 17-11	FREE FLIGHT TEST OF TAILLESS MISSILE CONFIGURATI MITH 45-DEG SMEPTBACK WING OF ASPECT RATIO 4 - STABILITY AT TRANSONIC SPEEDS
PRESSURE DISTRIBUTION MEASUREMENTS AT TRANSONIC FLOW IN A FREE JET ON AIRFOIL SECTION	NACA-RM-L56E11 N63-13986 09-
AVA-62-01 N63-20059 20-03	STABILITY & CONTROL OF X-15 AIRCRAFT SCALE MODEL AT TRANSONIC SPEEDS NASA-TM-X-758 N63-14247 10-
TRANSONIC FLUTTER FLUTTER PANEL TESTS IN TRANSONIC AND SUPERSONIC	NASA-TM-X-758 N63-14247 10-
WIND TUNNELS NA-62-1110 N63-10466 01-03	DISK SHAPED REENTRY BODY AT TRANSONIC AND LOW SUPERSONIC SPEEDS
TRANSONIC FLUTTER CHARACTERISTICS OF THIN	NASA-111-A-032 NGS-14001 10-
CANTILEVER WINGS WITH TAPER RATIOS OF 0.6 NASA-TN-D-1594 N63-12480 06-03	FREE OSCILLATION TEST TO DETERMINE HINGE MOMENT TRAILING-EDGE, FLAP CONTROL SURFACE WITH VARIOUS HINGE-LIME POSITIONS AT TRANSONIC SPEED
FREE FLIGHT TESTS OF 45-DEG SWEPT WINGS OF 3-15 ASPECT RATIO AND 0-54 TAPER RATIO TO MEASURE WING	NACA-RM-L57C11 N63-14763 11- FREE FLIGHT TESTS OF LIFTING SURFACE REENTRY
DAMPING AND POSSIBLE TRANSONIC FLUTTER NACA-RM-L54C22 N63-13867 09-03	VEHICLES AT MACH 0.6 TO 1.5 NASA-TM-X-437 N63-14766 11-
TRANSONIC FLUTTER OF ALL-MOVABLE HORIZONTAL TAIL -	3325 315 DOLLES 2814 NGTS 1955 V CONSTRUMENT
BENDING & PITCHING MOMENTS NACA-RM-L56G06 N63-20526 20-33	UNSTEADY AERODYNAMIC COEFFICIENT MEASUREMENT IN TRANSONIC FREE FLIGHT ONERA-TN-69 N63-15677 12-
TRANSONIC SPEED FREE FLIGHT MEASUREMENTS OF PRESSURE DISTRIBUTION	AXISYMMETRIC DOUBLE CONE EXTERNAL COMPRESSION
AT TRANSONIC AND SUPERSONIC SPEED ON BODIES OF REVOLUTION HAVING PARABOLIC AFTERBODIES ARC-REN-3290 04-02	INLET IN TRANSONIC RANGE - DRAG COMPONENTS AT DETACHED SHOCK CONDITIONS NASA-TH-X-154 N63-16136 13-
	THE RESIDENCE OF THE PROPERTY
STATIC STABILITY AND DRAG CHARACTERISTICS OF BLUNT BODIES AT TRANSONIC SPEED NASA-MEMO-10-28-58L. N63-12501 06-02	WING PLANFORM EFFECT ON STATIC LONGITUDINAL AERODYNAMIC CHARACTERISTICS OF FLAT TOP HYPERSON AIRCRAFT AT TRANSONIC SPEEDS
BUFFETING TESTS OF ATTACK AIRCRAFT MODEL AT	NASA-TM-X-364 N63-16138 13-
TRANSONIC SPEEDS NACA-RH-L57H13 N63-12534 06-02	AERODYNAMIC FORCES AND MOMENTS OF OSCILLATING CONTROL SURFACES AT TRANSONIC SPEEDS NACA-RM-L57022B N63-16237 13-
WIND TUNNEL INVESTIGATION AT SUBSONIC & TRANSONIC SPEED OF STATIC AERODYNAMIC AND CONTROL	FLOW PAST LOW-FINENESS RATIO BLUNT BODIES AT
CHARACTERISTICS OF CAPSULE-BOOSTER MODEL NASA-TH-X-317 N63-12559 06-02	TRANSONIC SPEEDS NASA-TM-X-169 N63-17253 15-
BASIC PRESSURE MEASUREMENTS ON 0.0667-SCALE MODEL OF NORTH AMERICAN X-15 RESEARCH AIRCRAFT	TURBINE PUMP MISSILE PROPELLANT - TRANSONIC SPE NACA-RM-E57J29 N63-17466 15
AT TRANSONIC SPEEDS NASA-TM-X-344 N63-12560 06-04	TRANSONIC WIND TUNNEL TESTS FOR AERODYNAMIC
EFFECTS OF DEFLECTED INBOARD AILERONS ON WING LOADS OF 45-DEG SMEPT-BACK WING AT TRANSONIC	CHARACTERISTICS OF MING-BODY CONFIGURATIONS MASA-TN D-1947 N63-17545 16
SPEEDS NACA-RM-L58E12 N63-12911 07-03	WIND TUNNEL INVESTIGATION OF STATIC AERODYNAMIC CHARACTERISTICS OF MERCURY CAPSULE MODEL AT
INTERFERENCE OF JET EXHAUST FROM LARGE TRANSONIC	TRANSONIC SPEEDS NASA-TH-X-292 N63-17988 16-

N63-13802 09-02

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6-02 6-02 ULE FOR

6-30

The state of the s	- F PRODUCE TROUBLE TRANSPORT TRANSPORT STRUMBLE TRANSPORT
STATIC STABILITY EVALUATION OF MERCURY CAPSULE IN WIND TUNNEL AT TRANSONIC, SUPERSONIC AND HYPERSONIC SPEED	PLANT TRANSPIRATION AND ENVIRONMENT
NASA-TM-X-433	ATA JAINBAND) NO ROUTEYJA NO RON63-17596 DIA 61-16
FLUTTER ANALYSIS OF BUCKLED CURVED PANELS AT TRANSONIC AND SUPERSONIC SPEEDS NASA-MEMO-5-18-59L N63-18042 16-33	FLUID TRANSPIRATION ARC - ELECTRODE PROPERTIES ARL-63-150 N63-22198 23-24
AND DESCRIPTION OF THE PROPERTY OF THE PROPERT	COMPARISON OF METHODS FOR EVALUATING SKIN FRICTION OF TURBULENT BOUNDARY LAYER WITH TRANSPIRATION -
PLANE AND CAMBERED DELTA WINGS AT TRANSONIC MACH NUMBERS - FLOW PATTERN - NONLINEAR LIFT FORCE ARC-REM-3305 N63-18064 16-03	FLUID DYNAMICS TRECOM-TR-63-35 N63-22375 23-11
UNREGULATED BLOHDOWN USING WIND TUNNEL AT	TRANSPIRATION COOLING IN THROAT REGION OF MOZZLE
TRANSONIC SPEEDS TN-AE-14-62 N63-22382 23-02	SYSTEM RTD-TDR-63-1036 N63-22380 23-02
VELOCITY AND PRESSURE DISTRIBUTION IN WAKE OF BODY OF REVOLUTION AT TRANSONIC AND SUPERSONIC SPEED N63-23321 24-02	INTERACTION OF WORKING FLUID AND GAS DISCHARGE COMPONENTS ON TRANSPIRATION COOLED ANODES N63-23473 24-24
ANSONIC WIND TUNNEL	TRANSPLANTATION
COMPARISONS OF LARGE AND SMALL MODELS OF SLENDER WINGS IN A TRANSONIC WIND TUNNEL	RADIATION MEDICINE - CHEMOTHERAPY, SKIN CHRONARY AND VISUAL MANALYZERS, SPLEEN HOMOTRANSPLANTATION, BLOOD AND BONE MARROW STUDY
entities in over a straight will be obtained and refer to enterthical and a community	JPRS-17402
FLUTTER PANEL TESTS IN TRANSONIC AND SUPERSONIC WIND TUNNELS N63-10466 01-03	TREATMENT OF RADIATION SICKNESS BY HOMO- TRANSPLANTATION OF FRESH AND PRESERVED SPLEEN
	* THE CT. A STRUCT AND A MOLTANIA N63-12397 AT 06-16
TRANSONIC WIND TUNNEL INVESTIGATION OF PRESSURES AND HINGE MOMENTS ON SWEPTBACK T-MOUNTED HORIZONTAL AIRCRAFT TAIL N63-12978 07-03	TRANSPLANTATION OF IMMUNDLOGICALLY COMPETENT
NASA-TM-X-61	WEGSTAN STATE OF THE PROPERTY
FLUTTER OF 45-DEG SMEPTBACK MING IN AIR AND FREON-12 IN TRANSONIC WIND TUNNEL NASA-TN-D-1616 N63-13261 07-33	BONE HARROW TRANSPLANTATION AND ITS APPLICATION TO RADIATION EFFECTS, APLASTIC CONDITIONS, AND LEUKENIA 463-18960 18-16
The state of the s	TRANSPLANTATION OF HEMOPOIETIC TISSUE - EMBRYONIC
MEASUREMENTS ON AGARD CALIBRATION MODEL - WIND TUNNELS, SCATTERING, TRANSONIC SPEEDS AND TRANSITION	LIVER OR BONE MARROW CELLS TO RATS - DEATH RATE JPRS-20948 N63-21025 21-17
AGARDOGRAPH-64 N63-13508 08-02	EFFECT OF HONOLOGOUS BONE MARROW TRANSPLANTATION
MEASUREMENTS ON AGARD CALIBRATION MODEL 8 IN TRANSONIC SPEED RANGE - WIND TUNNEL TEST WITH AND WITHOUT FIXED TRANSITION N63-13510 G8-02	ON CERTAIN REACTIVITY INDICES AND SURVIVAL OF LETHALLY IRRADIATED RATS N63-23299 24-16
22 - 1202 1 - 120 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	TRANSPONDER 3 2003 AND THE TRANSPORT THE TRANSPORT
MEASUREMENTS ON AGARD CALIBRATION MODEL C IN TRANSONIC SPEED RANGE - FIXED TRANSITION, BOUNDARY LAYER - PITCHING MOMENT N63-13512 08-02	DESIGN AND DEVELOPMENT OF THE GENERAL AVIATION TRANSPONDER N63-10164 01-08
CALIBRATION OF FLOW SURVEY METERS IN TRANSONIC	MOD-11 RANGING EQUIPMENT JPL-TR-32-337 N63-10333 01-20
WIND TUNNEL AEDC-TDR-63-134 N63-18117 16-15	GRAPHICAL PRESENTATIONS OF C-BAND TRANSPONDER
TRANSONIC WIND-TUNNEL TEST OF STATIC AERODYNAMIC	STUDY FOR APOLLO SPACECRAFT N63-12815 06-08
CHARACTERISTICS OF CONFIGURATIONS OF BLUE SCOUT LAUNCH VEHICLE NASA-Th-D-1958 N63-21891 22-31	GENERAL AVIATION TRANSPONDERS EVALUATION N63-13727 08-15
STATE OF STATE OF THE STATE OF	CHARACTERISTICS OF ALTITUDE COMPUTER SYSTEM FOR
AMSPAKENCY REALIZATION OF AN OPTICAL PERIODOGRAPH — APPLICATIONS TO THE STUDY OF THE FUNCTIONS OF	COMMERCIAL AIRCRAFT - PRESSURE ALTITUDE OUTPUT TO TRANSPONDER OR ALTIMETER DISPLAY N63-17700 16-15
TRANSPARENCY N63-13190 07-23	DATA CONVERTER UNIT FOR TRANSPONDER AND ENCODING
ANSPARENT MATERIAL RADIATION-INDUCED POLYMERIZATION - TRANSPARENT	AND CONVERTING SIGNAL INPUT INTO PULSE TRAINS - ALTITUDE MEASUREMENT N63-17749 16-15
NOISTUREPROOF PLASTIC COATINGS - POLYETHYLENE HALOGENATION	OPERATION OF GENERAL AVIATION TRANSPONDER /GAT/ -
RAI-303 N63-17187 15-07	ELECTRONIC DESIGN, DEVELOPMENT AND OPERATION
TRANSPARENT COMPOSITE PLASTIC FILMS FOR MILITARY PACKAGING	GEMINI RENDEZVOUS PULSED TRANSPONDER RADAR -
RIA-63-2482 N63-22822 23-19	INTERFEROMETER ANGLE AND RANGE MEASUREMENT AIAA PAPER 63-350 N63-20319 20-32
ANSPIRATION F EVAPORATION	TRANSPORT HOLE OF THE SECRETARY OF THE SECRETARY TROPERS
ABLATION RELATIONSHIPS FOR ANY TYPE OF BOUNDARY LAYER FROM TRANSPIRATION COOLING RESULTS	SA AIR TRANSPORT SA JET TRANSPORT SA SUPERSONIC TRANSPORT
THE SERVICES NOT STREET AND STREET STREET STREET	CF HOSTLITY
STUDIES OF VELOCITY PROFILE, SKIN FRICTION & HEAT- TRANSFER CHARACTERISTICS OF TRANSPIRATION-COOLED SURFACE N63-12692 06-11	MANEUVER ACCELERATION OF COMMERCIAL TURBOJEY TRANSPORT AIRPLANE NASA-TN-D-1801 N63-15774 13-04
TRANSPIRATION COOLING OF TURBULENT BOUNDARY LAYER	COACH-EIRE RREVENTION CVETCH EOR CORERCONIC
IN AXISYMMETRIC NOZZLE BY SECONDARY INJECTION OF HELIUM AND NITROGEN	COMMERCIAL TRANSPORT N63-16413 14-06

N63-23800 24-23

NUMERICAL APPROXIMATIONS TO SOLUTIONS OF MULTIGROUP TRANSPORT EQUATION IN INFINITE CYLINDRICAL GEOMETRICAL SHAPES WAPD-TR-396 N63-23800

ECONOMIC IMPACT OF SUPERSONIC TRANSPORT AIRCRAFT ON COMMERCIAL AVIATION	TEMPERATURES AROD-1579-12 N63-17017 15-25
FFA-94 N63-17596 16-01 RANDOM VARIATION OF ALTITUDE OF COMMERCIAL AIR TRANSPORTS USING AUTOPILOT ALTITUDE CONTROL	INTERACTION ENERGIES AND TRANSPORT COEFFICIENTS OF LITHIUM, HYDROGEN AND OXYGEN-HYDROGEN GAS MIXTURES AT HIGH TEMPERATURES
NASA-TN-D-1950 N63-18134 16-22	NASA-CR-50453 N63-18321 17-23
COMMERCIAL SUPERSONIC TRANSPORT AIRCRAFT R&D - BIBLIOGRAPHY N63-18173 16-04	NEUTRON TRANSPORT EQUATION SOLUTION AE-89 N63-19969 19-23
TRANSPORT OF RADIONUCLIDES IN FRESH WATER SYSTEM TID-7664 24-23	TRANSPORT COEFFICIENTS OF A SYSTEM OF HARD SPHERES WITH SQUARE WELL ATTRACTIVE FORCES UCB -7376
TRANSPORT AIRCRAFT COMPARISON OF VERTICAL TAKEOFF AIRCRAFT WITH THE CONVENTIONAL TYPE MGL PAPER-27 N63-10025 01-04	TRANSPORT PROPERTY CF DIFFUSION CF HEAT TRANSFER
ECONOMIC FEASIBILITY OF BOOST-GLIDE TRANSPORTS A-110052-5 N63-10479 01-04	CF RIMETIC INFORM CF THERMAL DIFFUSION CF VISCOSITY REENTRY DYNAMICS - SPACECRAFT, ATMOSPHERE, THERMAL
FOUR-PROPELLER STOL TRANSPORT AIRCRAFT WITH BOUNDARY LAYER CONTROL ON HIGHLY DEFLECTED FLAPS NASA-TH-D-1647 05-04	PROTECTION, TRANSPORT PROPERTIES N63-10230 01-01
INTERNAL AND EXTERNAL COMPRESSION STUDIES OF TURBOJET INTAKES AND EXHAUSTS FOR SUPERSONIC TRANSPORT AIRCRAFT N63-12483 06-02	TRANSPORT PROPERTIES OF GASES - REENTRY DYNAMICS N63-10235 01-23 TRANSPORT PROPERTIES OF AIR
DELTA WING CONFIGURATION FOR SUPERSONIC	UCRL-7052 N63-11178 03-23
TRANSPORT AIRCRAFT IAS PAPER-63-5 N63-12883 07-04	AEROTHERMODYNAMICS - TRANSPORT PROPERTY, STRUCTURE AND PROPAGATION N63-14821 11-02
HYDRAULIC FLUIDS FOR SUPERSONIC TRANSPORT AIRCRAFT TESTING PROGRAM RAC-1047 N63-13558 08-06	THERMODYNAMIC & TRANSPORT PROPERTIES OF POTASSIUN FOR USE IN HIGH TEMPERATURE HEAT TRANSFER - LIQUID METAL COOLED REACTOR. N63-15005 11-13
HEAT INTERCEPT COOLING SYSTEM FOR THE SUPERSONIC TRANSPORT - ABSORPTION OF AERODYNAMIC HEAT AND SUBSEQUENT DISCHARGE No.3-14572 10-13	THERMODYNAMIC AND TRANSPORT PROPERTIES OF N63-15397 12-18
MANEUVER ACCELERATION OF COMMERCIAL TURBOJET	HIGH TEMPERATURE TRANSPORT PROPERTIES OF NITROGEN, HYDROGEN, OXYGEN, AND AIR RAD-TM-63-7 N63-16525 14-13
TRANSPORT AIRPLANE NASA-TN-0-1801 N63-15774 13-04	FLOW MEASUREMENT OF TRANSPORT PROPERTIES AT FLAME
AMERICAN AND SOVIET INTEREST IN LIGHTER-THAN-AIR AIRCRAFT FOR TRANSPORT OF OVERSIZED CARGO RM-3698-PR 18381 17-01	TEMPERATURE - RADIDACTIVE TRACER N63-17524 16-11
PITOT/STATIC TUBE ALTIMETER SYSTEMS FOR TRANSPORT	EFFECTS OF HIGH INTENSITY ELECTROMAGNETIC MAYES ON TRANSPORT PROPERTIES AND PHENOMENA OF IONIZED GAS AT HIGH TEMPERATURES
F-823-8 N63-18671 17-04	AFCRL-63-127 N63-17685 16-11
POWERPLANT AUTOPRECESSION ON TURBOPROPELLER TRANSPORT AIRCRAFT NASA-TM-D-1806 N63-19604 19-03	CHAPMAN-ENSKOG KINETIC THEORY OF TRANSPORT PROPERTIES OF DILUTE GASES - INELASTIC COLLISIONS M63-18567 17-11
PROTECTIVE COATINGS FOR SHEET METALS IN SUPERSONIC TRANSPORT AIRCRAFT	RELAXATION EFFECTS IN TRANSPORT PROPERTIES OF ROUGH SPHERE GAS - KINETIC THEORY OF POLYATORIC
MASA-CR-50824 N63-19967 19-17	MOLECULES NASA-CR-50595 N63-18877 18-11
SHEET ALLOY SCREENING PROGRAM FOR MACH 3 TRANSPORT AIRCRAFT N63-20658 20-18	MATERIALS RESEARCH - MATERIAL SCIENCE, LIQUID AND SOLID MATERIALS, RADIATION EFFECT, TRANSPORT
SUPERSONIC TRANSPORT PROGRAM - TECHNOLOGY AND COST OF COMMERCIAL AIRCRAFT DEVELOPMENT M63-21028 21-02	PROPERTIES, ELECTRIC AND THERMAL PROPERTIES ACR-61 M63-19211 16-23
STALLING AND OTHER FLIGHT CHARACTERISTICS OF 12	ENERGY TRANSFER IN DENSE PLASMA - BOUNDARY LAYER TRANSPORT PROPERTY AND RADIATION COMDUCTION N63-19350 18-24
SPORT AND TRANSPORT AIRCRAFT N63-21627 22-04	PHONON INTERACTION WITH CHARGE CARRIERS -
TAKEOFF AND LANDING OPERATION BY TRANSPORT AIRCRAFT N63-22044 22-04	SENICONDUCTOR TRANSPORT MECHANISM M63-23084 24-25
TRANSPORT COEFFICIENT ROTATIONAL EXCITATION AND MOMENTUM TRANSFER CROSS SECTIONS FOR ELECTRONS IN HYDROGEN AND NITROGEN FROM TRANSPORT COEFFICIENTS NO3-14233 10-23	THERMODYNAMIC AND TRANSPORT PROPERTIES OF COMMON GASES - HIGH TEMPERATURE, HIGH VELOCITY GAS STREAM N63-23482 24-24
MONTE CARLO METHOD FOR NUCLEON TRANSPORT THROUGH SPACECRAFT SHIELDING NO3-15143 11-28	DRESSED PARTICLE MODEL FOR COMPUTING LONG & SHORT RANGE PARTICLE COLLISION EFFECTS FOR TRANSPORT PROPERTIES IN PLASMA
TRANSPORT CALCULATIONS FOR PROTON SHIELDING	VIDYA-101 N63-23589 24-24

TRANSPORT CALCULATIONS FOR PROTON SHIELDING
N63-15149 11-28

ELECTRON TRANSPORT COEFFICIENTS - EFFECT IN SINGLE CRYSTAL BISMUTH AT LIQUID HELIUM

12-11

TRANSPORT THEORY
OF INTEGRAL EQUATION
IDENTITIES FOR HALF-SPACE PROBLEMS IN LINEAR
TRANSPORT THEORY
N63-11646 04-20 TRANSPORT PHENOMENA AS APPLIED TO THERMOCOUPLES -APPLICATION OF BOLTZMANN EQUATIONS AFCRL-62-1047 N63-11709 04-2

5-25 S OF

7-21

9-23

ERES

1-21

RMAL

1-01

25

1-23

3-23

1-13

2-18

GEN.

-11

ME

-11

AS

-11

-11

MD

-23

-25

EAR -24

RT

-24

-23

R

THREE SOLUBLE PROBLEMS IN LINEAR TRANSPORT THEORY N63-11679 04-20

SLOWING APPROXIMATIONS IN NEUTRON TRANSPORT THEORY

KINETIC THEORY OF NONSPHERICAL HOLECULES — SOLUTIONS FOR BOLTZHANN EQUATIONS AND TRANSPORT COEFFICIENTS FOR INCLASTIC POLYATOMIC COLLISIONS WIS-TCI-6, SER. N63-12354

THERMAL ENERGY TRANSPORT CODE-TET N63-12637 06-20 DTM8-1613

SOLUTION OF NEUTRON TRANSPORT EQUATION IN HEAVY GAS IN PLANE GEOMETRY IN CASE OF INFINITE MEDIUM AND CONSTANT TOTAL CROSS SECTION A-8

STRUCTURE OF TELLURIUM SINGLE CRYSTALS STUDIED BY ELECTRON TRANSPORT METHODS - VALENCE AND CONDUCTION BANDS 07-2

BOUNDARY AND INITIAL VALUE CALCULATION OF INTEGRO-DIFFERENTIAL EQUATIONS IN SEVERAL DIMENSIONS MOLTR-62-193 N63-13294 07-20

ELECTRON TRANSPORT PHENOMENA IN ZINC AND BISMUTH AT LIQUID HELIUM TEMPERATURES - HALL EFFECT STUDY AROD-1579-11 N63-14452 10-23

ANISOTROPIC SCATTERING IN NEUTRON TRANSPORT THEORY EQUATION - APPROXIMATION ACCURACY LANS-2873

ANALYTICAL SOLUTION OF ENERGY DEPENDENT NEUTRON TRANSPORT PROBLEM FOR PLANE GEOMETRY AEC-TR-5204 M63-15522 12-2

MONTE CARLO SOLUTION OF RADIATION TRANSPORT

EQUATION UNC-5014, VOL. A 77 87 27 8 N63-15543 12-23

EXISTENCE AND UNIQUENESS THEOREMS FOR NEUTRON TRANSPORT EQUATION N63-17675 16-24

AIR VISCOSITY AT LOW TEMPERATURE & PRESSURE -TRANSPORT PHENOMENA IN KINETIC THEORY OF GASES AEOC-TDR-63-143 N63-17756 1 16-11

NEUTRON THERMALIZATION - TRANSPORT THEORY AND SPECTRA OF ZIRCOMIUM HYDRIDE AND POLYETHYLENE GA-3853 N63-18126 16-23

BOLTZMANN EQUATION FOR ENERGY GROUPS IN SLAB GEOMETRY - TRANSPORT THEORY 100-16856 N62-18833 N63-18833 18-20

RADIATION EFFECT IN ENERGY AND HOMENTUM TRANSPORT IN GAS 19-11

TRANSPORT THEORY OF FULLY IONIZED POTASSIUM
PLASMA - THERMOCONDUCTIVITY, POTENTIAL GRADIENT &
STABILITY M63-19910 : 19-24

PROJECT SQUID FLUID MECHANICS, CHEMICAL KINETICS, TRANSPORT AND TRANSFER PROCESSES, AND COMBUSTION PHENOMENA RESEARCH M63-23119 24-23

OVERSHOW TRANSPORT IN TRACKED, WHEELED AND SKI VEHICLES - SNOW SINKAGE AND MOTION RESISTANCE, TRAIL HARKING, AND CREVASSE CROSSING CREEL-111-44 M63-22639 21 10 2011 2VAN N63-22639 23-10

TRANSPORTATION
CF HANDLING EQUIPMENT

CF LOGISTICS
CF MOBILITY
SPACE TRANSPORTATION SYSTEMS FOR MANNED SPACE
FLIGHT SUPPORT
H63-23231 24-30

INSURANIUM ELEMENT
SEPARATION PROCESSES FOR TRANSURANIUM ELEMENTS CORROSION STUDIES
ORNL-3482
N63-23098 24-07

TRANSVERSE FLOW — GAS
ACTION OF TRANSVERSAL JET IN SUPERSONIC FLOW — GAS
INJECTION IN DIVERGENT SUPERSONIC JET
N63-22487 23-02

TRANSVERSE CIRCULATION IN REAL COLD FRONT ALONG FRONTAL ZONE AFCRL-63-732 N63-23711 24-21

TRANSVERSE MAVE
TURBULENT BOUNDARY LAYER FLOW OVER FLAT PLATE
VIBRATING WITH TRANSVERSE STANDING WAVES
N63-12196 05-11

BREAKUP OF MATER JET BY TRANSVERSE SHOCK WAVE NASA-TN-D-1728 N63-15561

TRANSVERSE WAVES IN A PLASMA IN A MAGNETIC FIELD

STRUCTURE AND INITIATION OF DETONATIONS IN THE CONDENSED PHASE - TRANSVERSE SHOCK MAYES.
N63-18541 17-26

EFFECTS OF SPACE CHARGE ON TRANSVERSE WAVES OF ELECTRON BEAMS N63-22253 2 N63-22253 23-09

MARINER II VENUS PROBE - MAGNETOSPHERE - SPATIAL DISTRIBUTION AND INTENSITY OF CHARGED PARTICLES IN MAGNETIC TRAPS N63-14943 11-29

SATELLITE MEASUREMENT OF IONIZED GAS IN INTERPLANETARY SPACE AND EARTH ATMOSPHERE USING ION TRAPS N63-18444 17-28

NEON & ARGON ADDITIVES IN CESIUM THERMIC DIDDE -CESIUM ION TRAPPING AFCRL-63-607 N63-19159 18-24

SALZBURG PLASMA PHYSICS CONFERENCE. SEPT 1961 - PLASMA BEHAVIOR IN MAGNETIC FIELDS AND TRAPS AEC-TR-5589, BK. 1 N63-19193 18-24

TRAPPED PARTICLE
SA GEOMAGNETICALLY TRAPPED PARTICLE
DIURNAL VARIATION OF THE GEOMAGNETICALLY TRAPPED
RADIATION SU1-62-23-A M3 HADRS ON 1 HOTERS 0 N63-10312 - 01-12

INCREASED INTENSITY OF INNER RADIATION BELT, COSMIC RAYS, ATMOSPHERIC DENSITY, TRAPPED PARTICLE N63-10903 02-28

GEOPHYSICAL RESEARCH WITH INJUN 1, 11, AND 111 SATELLITES SU1-62-28

MAGNETIC FIELD OF MODEL PROTON BELT N63-11783 04-12

ADIABATIC APPROXIMATION FOR DYNAMICS OF A PARTICLE IN THE MAGNETIC FIELD OF A TAPERED SOLENDIO SLAC-4 M63-11869 04-23

MAGNETIC FIELD OF RADIATION BELT AND DISTORTION OF STREET OF SECONAGNETIC FIELD AND ALLEY A NOS-11951 95-12

ABSOLUTE INTENSITIES OF GEOMAGNETICALLY TRAPPED PARTICLES WITH EXPLORER XIV SUI-62-31 M63-12328 05-28

VAN ALLEN BELTS - MOTION AND ORIGIN OF PARTICLES IN EARTH RADIATION BELTS M63-12653 06-28

REVISED THEORY OF AURORAL BOMBAROMENT N63-13032 07-12

GEOCYCLOTRON - VERY LOW FREQUENCY WAVE COUPLING

AN PH RA CR SI GU

TREAT S T

CF F

RR ACC AM TRIAM CF I AM D CC J J D D P P

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TO TRAPPED PARTICLES IN THE IONOSPHERE AFSWC-TDR-63-35 N63-19891 19-24	UCRL-7253 N63-16565 14-26
POSITRONS AS TRACERS TO STUDY MOTION OF TRAPPED	MAGNETIC INSULATION EXPERIMENTS WITH TRAVELING MAGNETIC PISTON PLASMA ACCELERATOR SSD-TDR-63-72 N63-17529 16-11
ELECTRONS IN EARTH HAGNETOSPHERE IDA/HQ-63-1715 N63-20063 20-28	THEORY PROGRESS OF A STATE OF THE STATE OF T
AMBIENT RADIATION AND TRAPPED PARTICLES IN SPACE - AEROSPACE MEDICINE N63-20570 20-28	PLASMA ACCELERATION BY TRAVELING ELECTROMAGNETIC WAVES ARL-63-84 N63-20766 21-19
GEOMAGNETICALLY TRAPPED PROTONS WITH ENERGIES GREATER THAN 350-MEY N63-20648 20-28	PLASMA ACCELERATION BY TRAVELING MAGNETIC WAVE
	N63-23478 24-24 TRAVELING WAVE AMPLIFIER
TRAPPED PARTICLES FROM HIGH ALTITUDE NUCLEAR EXPLOSIONS NASA-RP-40 N63-23794 24-23	LARGE SIGNAL TRAVELING MAVE TUBES & AMPLIFIERS, DEPRESSED POTENTIAL COLLECTORS, ELECTRON BEAM GUNS KLYSTRONS, LOW NOISE CRESTATRONS & MAGNETRONS RADC-TOR-63-8 N69-14001 09-20
CF ARTIFICIAL RADIATION BELT CF INMER RADIATION BELT CF OUTER RADIATION BELT CF RADIATION BELT CF VAN ALLEN BELT	EFFICIENCY IMPROVEMENT THROUGH PHASE FOCUSING AND COLLECTOR DEPRESSION IN TRAVELING WAVE AMPLIFIERS, KLYSTRONS, BACKWARD WAVE OSCILLATORS RADC-TOR-62-470 NA3-15097 11-00
ELECTRONS IN THE EARTHS OUTER RADIATION BELT N63-10905 02-28	K-BAND, CONTINUOUS WAVE TRAVELING WAVE AMPLIFIER - PARTS LIST N63-22520 23-09
MEASUREMENT OF DECAY OF TRAPPED-FLUX IN SUPER- CONDUCTING RING UNDER BOMBARDMENT OF ALPHA PARTICLES FROM POLONIUM-210	FILLING FACTOR OF TRAVELING-WAVE MASER - SINGLE OR BOTH SIDES LOADED, GAIN, ISOLATOR, AND PUMP
LMF-62-85 N63-12574 06-23	N63-23527 24-25
TRAPPED RADIATION AS MEASURED BY SATELLITE-BORNE INSTRUMENTS NASA-CR-50284 N63-17200 15-28	TRAVELING WAVE PUMP ONE-DIMENSIONAL MODEL FOR COMPRESSIBLE FLOW IN TRAVELING WAVE PUMP
	MIT-DSR-9015 N63-20751 21-11
S CRYOTRAPPING	TRAVELING WAVE TUBE
RAVEL S INTERSTELLAR TRAVEL	CF ELECTRON TUBE TRAVELING MAVE TUBE, COPPER EXCITATION, GALLIUN ARSENIDE AND SENICONDUCTORS N63-11218 03-09
RAYELING CHARGE INTERIOR BALLISTIC ANALYSIS OF TRAVELING CHARGE	FIVE KILOMATT C-BAND TRAVELING WAVE TUBE FOR THE TELSTAR GROUND TRANSMITTER N63-11219 03-09
HYPERVELOCITY GUN - MATHEMATICAL MODEL N63-11712 04-11	LARGE SIGNAL TRAVELING WAVE TUBES & AMPLIFIERS,
NITROCELLULOSE PROPELLANT FOR TRAVELING CHARGE	DEPRESSED POTENTIAL COLLECTORS, ELECTRON BEAM GUNS KLYSTRONS, LOW NOISE CRESTATRONS & MAGNETRONS PAGE 100-100-43-8
BRL-MEHO-1485 N63-19746 19-26	MUNITE CARLO SOLUTION OF PACIALION LAWREDS.
RAVELING SALESMAN PROBLEM SOLUTION OF THE TRAVELING SALESMAN PROBLEM BY DYNAMIC PROGRAMMING ON THE HYPERCUBE	DEVELOPMENT OF COUPLED CAVITY TRAVELING WAVE TUBE AMPLIFIER FOR 1000 MATTS CM AT 35 GC W-J-63-615R3 N63-14047 09-08
AROD-968-34 N63-11125 03-20	TRAVELING WAVE TUBES, CRYSTAL LAMPS, CERANIC WINDOWS, MAGNETS, SECONDARY EMISSION FROM TUNGSTEN
PROBABILITY, FORMULATION, ECONOMIC PROBLEMS JPRS-16738 03-20	SURFACE BOHBARDMENT, CRYSTAL FIELDS, GASEOUS MASER N63-14414 10-01
PSEUDO-SOLUTION TO SCHEDULING PROBLEM N63-12037 05-20	STUB-SUPPORTED RING AND BAR TRAVELING WAVE TUBE N63-14415 10-23
RAVELING SOLVENT METHOD CF SOLVENT	EFFECT OF CIRCUIT BREAK ON HIGH POWER TRAVELING WAVE EFFICIENCY N63-14417 10-23
TRAVELING SOLVENT METHOD OF CRYSTAL GROWTH - SILICON CARBIDE, GALLIUM ARSENIDE, DEPOSITION AFCRL-62-503 N63-11669 04-25	BAKEABLE ELECTROMAGNET FOR HIGH POWER TRAVELING WAVE TUBES - SOLENDIO-COIL-WOUND TUBE PROCESSED AS UNIT PACKAG-14419 10-09
TRAVELING SOLVENT METHOD OF SILICON CARBIDE CRYSTAL GROWTH AFCRL-63-75 N63-14646 10-07	BEAM INTERACTION STRUCTURE FOR TRAVELING WAVE
SINGLE CRYSTAL GROWTH OF GALLIUM ARSENIDE AND	ASD-TR-61-277 1251231 4227 N63-15680 12-09
AFCRL-63-314 RAVELING SOLVENT METHOD N63-20412 20-25	DEVELOPMENT OF COUPLED CAVITY TRAVELING-WAVE TUBE AMPLIFIER TO PRODUCE 1000-CW AT 35-GC
RAVELING WAVE INTERACTION BETWEEN A PLASMA AND A TRAVELING WAVE UCRL-6947-T N63-11224 03-24	S-BAND LOW-NOISE PERIODIC PERMANENT MAGNET TRAVELING WAVE TUBE - ELECTRON BEAM FOCUSING
NONLINEAR TRAVELING AND STANDING PLASMA MAVES IN HONOGENEOUS, IONIZED COLD STREAMS	RADC-TDR-63-172 N63-18628 17-09 HONLINEAR THEORY OF PLANE TRAVELING WAVE TUBE
AFCRL-62-1093 M63-11456 03-12	NONLINEAR WAVE EQUATION SOLUTION BY SUCCESSIVE APPROXIMATIONS
MOTION OF PLASMA RING THROUGH VARIOUS TRAVELING MAGNETIC-WAVE PLASMA ACCELERATORS NASA-TN-D-1636	RADC-TOR-63-333 W63-18649 17-09 K-BAND TRAVELING-MAVE TUBE
INTERACTION BETWEEN PLASMA AND TRAVELING MAGNETIC	ASD-TR-63-7-741, VOL. 2 N63-20582 20-09
DISTURBANCE	KU-BAND TRAVELING-WAVE TUBE PRODUCTION REFINEMENT

NII NI

TIS-R62ELM-186-10	N63-20596 1 20-09	AND PERCHLORYL FLUORIDE AND MAS-13093 07-17
	TRAVELING-WAVE TUBES - ART CTRON GUN & CRESTATRON N63-20827 21-23	HIGH ENERGY OXIDIZERS - NUCLEAR MAGNETIC RESONANCE AND INFRARED SPECTRUM STUDIES OF IONIC STRUCTURE OF CHLORINE TRIFLUORIDE COMPLEXES
	E AMPLIFIER TUBE - LARGE TAND HOLLOW-BEAM ELECTRON	CHLORINE TRIFLUORIDE-HYDRAZINE LIQUID PROPELLANT
GUNS RADC-TOR-63-108	N63-21116 21-09	AND ROCKET MOTOR DEVELOPMENT NASA-CR-51004 N63-21722 22-26
HIGH-POWER GRIDDED TRAVEL		TRIFLUOROETHYLENE INFLUENCE OF GAMMA RADIATION AND ALKALI TREATMENT ON PYROLYSIS OF POLYTRIFLUOROETHYLENE
TREAT S TRANSIENT REACTOR TEST		00-851 /A035-EAH N63-12707-JF 06-07
S HEAT TREATMENT DAMA	ATROSPHERESTA CONTRA	TRIGA MARK F REACTOR SAFETY OF IN-CORE EXPOSURE OF ROVER/NERVA FUEL TO PULSED IRRADIATION IN TRIGA MARK F REACTOR POWER TRANSIENT
CF PLANT	4FCR1-62-899	USNRDL-TR-669 N63-23181 24-27
THE TREE AS A STRATAGEM	FOR INFORMATION HANDLING - VION N63-12142 05-20	TRIGLYCINE SULFATE PHASE SHIFT OF THE HARMONIC OUTPUT OF TRIGLYCINE SULFATE AS A FUNCTION OF THE SIGN OF POLARIZATION
RETRIEVAL USING TREE PATT ACORN-24		NOLC-568 N63-11416 03-23 TRIGONOMETRIC FUNCTION
APPROXIMATE SOLUTION OF T	THE RADIO FIELD STRENGTH	ASYMPTOTIC BEHAVIOR OF BESSEL FUNCTIONS - EXPRESSION IN TERMS OF TRIGONOMETRIC FUNCTIONS NRC-313 N63-14433 10-20
TRIANGULATION	N63-14199 09-08	FUNCTIONS OF COMPLEX VARIABLE INVOLVING PRODUCTS OF TRIGONOMETRIC FUNCTIONS SPACED AT REGULAR INTERVALS
BY MEANS OF MULTIGROUP ME	STEMS OF NORMAL EQUATIONS ETHOD ON AN ELECTRONIC	LMSC-6-90-62-125 N63-14629 10-20
COMPUTER JPRS-16566	N63-10976 02-20	TRIM HIGH TEMPERATURE LIQUID METAL HEAT TRANSFER - COMPONENTS FOR SNAP 2 LIQUID COOLED REACTOR, PUMP.
DETERMINATION OF PERIODIC		HEATER, FLOW TRIMMER, RADIATOR-CONDENSER N63-15020 11-13
LASER-ACTIVATED REFLECTING	NG GEODETIC OPTICAL	EFFECT OF STATIC STABILITY, PITCH DAMPING, ROLL & TRIM ANGLE ON HYPOTHETICAL MOSE COME REEMTRY VEHICLE CARDE-TN-1559/63
ROCKET-FLASH TRIANGULATIO	ON, SATELLITE GEODESY AND GEOCENTRIC GEODETIC M83-23306 24-12	HELICOPTER INSTRUMENT FLIGHT RULE CAPABILITY - STABILITY AND TRIM TRECOM-TR-63-18 174980 244 M63-17498 16-04
	- NOTE N63-16718 1/14-12	TRIMETHYLBORATE FULL SCALE TURBOJET ENGINE TESTING OF FUELS + PENTABORANE-JP-4 MIXTURES AND TRIMETHYLBORATE
TRIAXIAL TENSION FAILURE ARL-63-152	OF VISCOELASTIC MATERIALS N63-22499 23-19	AZEOTROPE PERFORMANCE NACA-RM-E56G19 N63-12542 06-26
TRIBUTYL PHOSPHATE REMOVAL OF ORGANIC MATERI TRIBUTYL PHOSPHATE KEROSE NLCO-882	TAL CONTAMINANTS FROM	TRINITROTOLUENE /THT/ THEORETICAL CALCULATIONS ON SHOCK INITIATION OF LIQUID TRINITROTOLUENE NOLTR-62-159 N63-14487 10-26
URANIUM CARBIDE AND PLUTO		DEVELOPMENT OF SHOCK WAVE & ITS SUBSEQUENT GROWTH- TO-DETONATION IN TRINITROTOLUENE AND VARIOUS CYCLOTOLS M93-18552 17-11
AS REACTOR FUELS	N63-19235 18-07	TRINITRO-TRIAZOCYCLOHEXANE /ROX/
POLYMERIZATION OF CONJUGA	NA 2-23400 24-07	SHALL SCALE SHOCK SENSITIVITY AND OUTPUT OF TRINITRO-1,3,5-TRIAZOCYCLOMEXAME/CALCIUM-STEARATE MIXTURES NOLTR-63-91 N63-22490 23-19
KINETICS OF THERMAL DECOM	MPOSITION OF GASEOUS N63-15822 13-07	TAIDDE CF ELECTRON TUBE A 90-DEGREE FLAT-PLATE TRIDDE FOR DIRECT ENERGY
TRIFERROCENYL PHOSPHINE FRIEDEL-CRAFTS REACTION O	MOITATEREDER PRECIPITATION	CONVERSION - THERMIONICS NASA-TH-D-1532 NASA-10180 : 01-06
PHOSPHORUS TRICHLORIDE TO PHOSPHINE	FORM TRIFERROCENYL-	DATA ACCURACIES AND MEIGHTING PACTORS AT 50-HILLIBARS N63-10575 -01-21
	36920408N63+1332741.08-07	HOT ELECTRON EMITTER - SOLID STATE TRIODE
RELATIVE IGNITABILITY OF TO CHLORINE TRIFLUORIDE	SOLIO PROPELLANTS EXPOSED	AMPLIFIERS 24 24 24 24 25 24 25 26 27 27 27 27 27 27 27 27 27 27 27 27 27
NASA-TN-D-1533 EXPOSURE OF MELDED METALS		ARMY INSTRUMENTATION PROGRAM - ORGANIC FILM TUMMEL EMISSION - SOLID STATE TRIODE SMIR-63-1 N63-13788 13-09
		THE RESERVE THE PARTY OF THE PA

RAIS TRI

GOLD-SILICON METAL-SENICONDUCTOR TRIODES	CE TOTTOM
AFCRL-63-113 H63-17388 15-25	CF TRITIUM OF CAME STANDARD ST
CESIUM VAPOR THERMIONIC CONVERTERS - CURRENT DENSITY, OSCILLATIONS, DUTPUT VOLTAGE, & CURRENT IN TRIDDES N63-20632 20-09	TROJAN ORBIT PERIODIC TROJAN ORBITS AND THUERING THEORY NASA-TN-D-1416 N63-16985 15-21
ACTIVE THIN FILM TRIODE DEVICE DEPENDENT UPON	TROPICAL METEOROLOGY TIROS SATELLITE PHOTOGRAPHIC TRACKING OF PACIFIC
TUNNELING FOR GAIN MECHANISM J046-3 N63-21835 22-23	OCEAN TROPICAL CYCLONES AFCRL-63-493 N63-19839 19-21
RESISTIVITY OF THIN GOLD FILMS ON SILICON SUBSTRATES & FABRICATION OF HOT ELECTRON DIODE & TRIODE EMITTERS	TYPHOON AND TERMINAL FORECASTING METHODS FOR THE TROPICS HAWAII INST. GEOPHYS. REPT37
AFCRL-63-336 N63-22081 22-09	N63-21019 21-22
THIN FILM ACTIVE DEVICES - HOT ELECTRON COLLECTORS, METAL EDGE AMPLIFIER TRIODES, AND ALUMINUM OXIDE FILMS	TROPICS SA SUBTROPICS TYPICAL TROPIC, SUB-TROPIC, AND MID-LATITUDINAL
J046-4 N63-22976 23-25	ATMOSPHERES
TRIODE-DIODE FUNCTION GENERATOR FOR ANALOG	SEVENDED CONTRACTOR OF STREET STREET
COMPUTERS 88-318 N63-23174 24-09	METEOROLOGY OF TROPICAL PACIFIC VIEWED FROM ENIMETOK ATOLL WEATHER STATION HAWAII INST. GEOPHYS. REPT27
TRIPHENYLPHOSPHINIMINE REACTION OF TRIPHENYLPHOSPHINIMINES WITH BORON	M63-15178 11-21
FLUORIDE, ORGANOMETALLIC COMPOUNDS AND LEWIS ACIDS ARDD-2276-4 08-07	TROPOPAUSE CF ATMOSPHERE TROPOPAUSE PLACEMENT IN THE ANTARCTIC
TRIPLET EXCITATION	AFCRL-62-1134 N63-12148 05-12
TRIPLET EXCITATION OF AROMATIC SOLUTES BY ELECTRON IMPADIATION ASD-TDR-63-616 N63-18793 18-07	MASS TRANSFER AND DISTRIBUTION IN TROPOPAUSE AND STRATOSPHERE N63-17786 16-21
TRIPLET STATE RADIATIONLESS CONVERSION FROM TRIPLET STATE	LEVEL AND NATURE OF TERRESTRIAL ATMOSPHERE N63-23330 24-21
AFCRL-62-626 N63-14357 10-07	TROPOSCATTER
TRISETHYLENEDIAMINE COBALT III PERCHLORATE HEAT OF FORMATION OF TRISETHYLENEDIAMINE COBALT III PERCHLORATE BY REACTION CALORIMETRY	EXAMINATION OF PARAMETERS BETWEEN REDSTONE ARSEMAL AND WHITE SANDS RANGE FOR OPERATING FREQUENCY IN L-BAND
PA-TM-1113 N63-14814 11-07	RE-TR-63-2 N63-14088 09-08
TRITIUM CF ISOTOPE ATMOSPHERIC LOSS FROM EARTH AND PRODUCTION OF	FREQUENCY ASSIGNMENT FOR COMMUNICATION SATELLITE AND GROUND STATION - TROPOSPHERIC SCATTER, TERRAIN SHIELDING, AND MICROMAYE TRANSMISSION
TRITIUM AND HELIUM IN SOLAR FLARES N63-10460 01-12	N63-15048 11-08
TRITIUM, ORTHO AND PARA FORMATION ON CHARCOAL AT	ERROR ANALYSIS OF DIGITAL COMMUNICATION SYSTEMS - TROPOSPHERIC SCATTER CHANNELS
CRYOGENIC TEMPERATURES N63-10709 02-07	RADC-TDR-63-255 N63-19778 19-08
TRITIUM DETERMINATION - PHYSICAL AND RADIOMETRIC METHODS DP-511 N63-11236 03-07	SIMULATION EXPERIMENTS IN TWO-WAY CONTROLLED CARRIER TRANSISSION - TROPOSPHERIC SCATTER TRANSMISSION IMPROVEMENTS
USE OF TRITIUM FOR DETERMINING RELATIVE CONSTANTS	AFCRL-63-159 N63-19806 19-08
OF ABSTRACTION RATES OF HYDROGEN ATOMS IN ORGANIC COMPOUNDS - HYDROCARBONS IN RADICAL REACTIONS TIL/T-5370 07+07	TROPOSPHERE CF ATMOSPHERE DATA ACCURACY COMPARISON - TROPOSPHERE VERSUS
10.000 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 1	STRATOSPHERE THE SHARM SHEED AND ASK STREET BY SUBJECT OF
TRITIUM IN ATMOSPHERIC GASES - HYDROGEN & METHANE AFCRL-63-260 09-07	0.424
EFFECT OF TEMPERATURE AND CARRIER GAS ON LOSS	WIND SPECTRA OF THE TROPOSPHERE AND LOWER STRATOSPHERE
RATE OF TRITIUM FROM RADIOACTIVE FOILS N63-15273 12-23	AFCRL-62-1022 N63-11167 03-12
CONVERSION OF ORTHO-PARA TRITIUM IN HOMOGENEOUS	WIND AND TEMPERATURE FIELDS OF THE TROPOSPHERE AND LOWER STRATOSPHERE
GAS AND SOLID PHASES NASA-CR-50363 N63-18168 16-07	AFCRL-62-1023
STLETON-COUNTS OF THEMS INC. SCLVENT OF THEM	CHEMICAL ANALYSES OF GLACIER ICE & TROPOSPHERIC
OXIDATION OF POLYPHENYL ETHERS AND INTERMEDIATES - REACTIONS OF TRITIUM-LABELED POLYPHENYL ETHERS N63-18353 17-07	WASHOUT TO DETERMINE CHEMICAL TRACE CONCENTRATION AFCRL-63-404, PT. IEII N63-14540 10-12
ATOMIC INDUSTRY - NUCLEAR REACTIONS, NUCLEAR	TROPOSPHERIC WASHOUT - CONCENTRATION OF CHEMICAL TRACES PRECIPITATION
FISSION & THERMONUCLEAR FUEL, PRODUCTION OF DEUTERIUM, TRITIUM & LITHIUM AND NUCLEAR MOTORS	AFCRL-63-404 N63-14542 10-12
JPRS-20754 N63-22152 22-23	FAST ELECTROMAGNETIC SIGNALS PRODUCED BY NUCLEAR EXPLOSIONS IN TROPOSPHERE
TRITIUM LABELING OF ORGANIC MATERIALS - NUCLEAR	LA-2808 N63-15550 12-10
MAGNETIC RESONANCE AND EXCHANGE REACTIONS NYO-10178 23-23	TURBULENCE IN THE UPPER ATMOSPHERE - STRATOSPHERE AND UPPER TROPOSPHERE N63-16817 14-11
TRITON CF ELEMENTARY PARTICLE CF SURFACTART	WIND CIRCULATION IN STRATOSPHERE AND TROPOSPHERE N63-18679 17-21

e

-31

-21

-91

-21

-08

-08

13

12

21

12

12

tō

11

1

RADIO ASTRONOMICAL STUDIES - SI IONOSPHERE ELECTRON DENSITY, TO	OLAR FLUX, ROPOSPHERE	9-07 05/3
SCINTILLATION	N63-19191	18-05
AIR REFRACTIVITY CHANGE MEASUR TROPOSPHERE AT HIGH RELATIVE H TEMPERATURES - HAY AND MICROWA AFCRL-63-631	EMENTS IN UMIDITIES AND VE REFRACTOMES N63-19377	ERS 18-21
OZONE THICKNESS AND PHENOMENA RSIC-24	IN UPPER TROPO N63-19393	SPHERE 18-12
RADIO PROPAGATION IN F-LAYER OF TROPOSPHERE - INFLUENCE OF COS	F IONOSPHERE A HIC RAYS N63-20799	
POSPHERIC SCATTER		
POSPHERIC SCATTER BEAM ELEVATION RELATIONS CALCU PREDICTION METHODS BASED ON TRI COMMUNICATION MEASUREMENTS		
NBS-TN-180	N63-21446	
SPACE DIVERSITY RECEPTION IN THE	ROPOSPHERIC SC	ATTER
APCAL-03-330	403-22300	23-50
HCATION ERROR TRUNCATION ERROR BOUNDS BY FIN	TTE DIEEEBENCE	es ene
THE GOURSAT PROBLEM		
BA-289	N63-11567	04-20
ISS STIFFNESS AND VIBRATION PREDIC MULTISTAGE CYLINDERS, AND CLUS	TION IN TRUSSI TERED CYLINDEI N63-11064	S, US 03-33
UNIFORM DISPLACEMENT DIAGRAM F	OR THREE-DIMEN	SIONAL
TRUSS PROBLEMS - GRAPHIC STATI	CS N63-20277	20-17
CENTRAL OF AVAILABLE	ATTOMORPH FUNC	0120
EUSTACHTAN TUBE IMAGE CONVENTER TUBE MICROMAVE TUBE PHOTOTUBE PITOT-STATIC TUBE	PARTER OF REPLACE OF START AGE TR-640, INLIES	A)OCK A)CK VAL- ROCK ROCK
HYDROMAGNETIC WAVE TUBE - MODE AFCRL-62-550	N63-10136	
HEAT TRANSFER AND FRICTION IN TUBES AT VARIOUS PRANDTL NUMBER JPL-TR-32-269	SMOOTH AND ROL	JGH
JPL-TR-32-269	N63-10332	01-13
BIAXIAL CREEP OF THIN-WALLED TO ALLOY AT HIGH TEMPERATURES	UBES OF ALUMIN	NUH
ARL 02-939	N03-10525	01-33
PARALLEL PLANE THERMIONIC CONV VARIABLE INTERELECTRODE GAP	FATER TURE WIT	THE STATE OF
VARIABLE INTERELECTRODE GAP	N63-10548	01-06
VOID FRACTION MEASUREMENTS IN TUBE WITH LIQUID METAL FLOW	CAVITATING VEH N63-10643	TUR1 02-15
GAS DYNAMICS OF HOMOGENEOUS AT	ON RECOMBINATI	ON IN
A CYLINDRICAL TUBE R62SD97		
DYNAMIC RESPONSE OF FLUID LINE TRANSMISSIONS	S IN HYDRAULIC	MILEN
CAMERA STUDY OF TWO-PHASE FLOW WITH HEAT ADDITION NASA-TN-D-1564	TAPELLIZED BUIL	DIST
INSTANTANEOUS AND CREEP BUCKLI	NG OF OUT-OF-I	ROUND
TUBES UNDER EXTERNAL PRESSURE DRNL-3299	N63-12257	

WINDOWLESS TUBES FOR X-RAY SPECTROSCOPY

DENSETTE HOUSE PROPERTY FOR DESPENSED IN STRENGS

INCREASE IN TRANSITION TIME EXPLAINED BY EXISTENCE OF DISTURBANCE ON SHOCK TUBE WALLS M63-12749 G6-11 PRODUCING HIGH-ENTHALPY SHORT-DURATION HYPERSONIC GAS FLOW WITH EXPANSION TUBE
NASA-TR-R-133
07-02 RESONANCE TUBES IN SUPERSONIC FLOW FIELD
JPL-TR-32-378 N63-13447 08-02 HEAT-TRANSFER COEFFICIENT AND PRESSURE DROP FOR FORCED-CONVECTION BOILING OF N-BUTANOL IN UNIFORMLY HEATED TUBE N63-13564 08-13 HCRI -10527 GRIDDED LASER TUBE STUDY, GAIN MEASUREMENT, GAS DISCHARGE, AND WAVE POWER N-J-63-606R12 N63-13815 A9-09-23 EFFECTS OF AIR CONTENT AND MATER PURITY ON LIQUID TENSION AT INCIPIENT CAVITATION IN VENTURI FLOW NASA-TM-D-1459 09-11 VACUUM-AIR MISSILE BOOST CONCEPT - ESTIMATION OF TERMINAL VELOCITY IMPARTED TO PROJECTILE IN LAUNCH ABOD-H-62.4 NUMERICAL ANALYSIS FOR FREE-MOLECULE IMPACT-PRESSURE RELATION FOR CIRCULAR TUBES OF ZERO ANGLE UTTA-RE 4484T-FAM MAGNETIC EFFECT ON FLOW OF COMDUCTING GAS IN PLANE TUBE WITH HEAT TRANSFER THROUGH WALLS FTD-TT-62-333/18284 N63-15182 11-11 FLOW CHARACTERISTICS OF SATURATED FREON-II THROUGH APERTURES AND SHORT TUBES N63-15218 11-11 FINITE ELASTIC SLUMP OF INFINITELY LONG, HOLLON INCOMPRESSIBLE CYLINGER BONDED TO RIGID OUTER TUBE - FAILURE PREDICTION FOR METAL AND RUBBER GALCIT-SM-62-54 12: REACTOR TECHNOLOGY - REACTOR CORE POWERPLANT, GADOLINIUM SEPTA, SPACE-TIME SYNTHESIS PROBLEMS, CERANIC FUEL MATER, TEFLON, & ROLLED-IN TUBE NAPO-BT-28 N63-15261 12-10 METHOD FOR DEFLECTION AND STRESS ANALYSIS IN PERFORATED HATERIAL AND ROLLED-IN TUBE EFFECT - M63-15267 12-33 ANALYSIS OF CRITERION RELATIONSHIPS FOR LIQUID BOILING IN TUBES - LIQUID DYNAMICS - HEAT TRANSFER TIL/Y-5388 N63-15698 13-13 DEVELOPMENT OF AN E-BAND AMPLIFIER RADC-TOR-62-586 FORMATION OF DETONATION WAVES BY OXYGEN-HYDROGEN FUEL MIXTURE IN VARIABLE GEOMETRY TUBES H63-16746 HASA-TH-D-1983 COMPRESSIBLE FLUID VISCOSITY AND GAS FLOW IN TUBES AND SLOTS 01-82-0168 LATA 18 10 24904 A M63-16928 14-11 CAVITATION PITTING CHARACTERISTICS FROM CAVITATING PHYSICS OF FAST REACTOR - HEAT FLOW AND WATER VAPOR MIXING IN REACTOR TUBES AND CHAN N63-18198 16-23 PITOT/STATIC TUBE ALTIMETER SYSTEMS FOR TRANSPORT F-823-0 MICKEL-CHROMIUM-ALUMINUM ALLOY DEVELOPMENT FOR HIGH TEMPERATURE TUBING - TEMSILITY TESTS -MELDING AND BRAZING NASA-CR-50758 N63-19265 18 H63-19265 10-16 MECHANIZED BRAZING OF HEAT-EXCHANGER TUBES

N63-12579 06-23

CATHO

TUNGS

MACHI TANTA

STEEL ASD-1

HOLYE ASD-1

NIOB: ZIRCI ASD-

SOL II

TUNG: TEMPI

MATE

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MEL ELE NAS

HEGI TAN ASD

SIN

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ASC

196 ASC

TUN 196

ASC

TUN 196 ASC

TUN 196 ASC

ME/

JPRS-20734 N63-19873 19-17	TO PREPARE CRUDE TUNGSTEN METAL FOR FURTHER
LOCAL HEAT TRANSFER COEFFICIENT MEASUREMENTS IN	ELECTROREFINING BM-RI-6161 N63-12407 06-07
TUBES MITH HIGH HEAT FLUXES EUR-348.D N63-19916 19-13	ENERGY EXCHANGE BETWEEN COLD GAS MOLECULES AND NOT TUNGSTEN SURFACE - PRESSURE DEPENDENCE OF MOLECULE
IMAGE TUBE SENSISTIVE TO RADIATION IN ULTRAVIOLET SPECTRUM N63-20859 21-23	ADSORPTION AND DESORPTION N63-12420 06-23
NIOBIUM AND NIOBIUM ALLOY EXTRUSION - TUBING SN-91657 N63-21424 22-18	EXTRACTION AND SPECTROPHOTOMETIC DETERMINATION OF TUNGSTEN WITH 8-QUINOLINOL N63-12438 06-07
PRESSURE IMPULSE FATIGUE TEST OF WELDED STAINLESS STEEL TUBING	CONTINUOUS SCAN SCINTILLATION SYSTEM FOR INSPECTION OF TUNGSTEN BILLETS FOR NOZZLES IN
A059 N63-21662 22-33	SOLID PROPELLANT ROCKET ENGINES USNRDL-TR-602 N63-12474 06-17
STRENGTH OF GRAPHITE & PLASTIC TUBING UNDER BIAXIAL STRESS RR-TR-63-18 N63-22934 23-19	SHORT-ARC WELDING OF HASTELLOY-N Y-1409 N63-12636 06-17
CONSTRUCTION AND FEASIBILITY OF MILLIMETER WAVE	EXAMINATION OF MECHANICAL PROPERTIES OF TUNGSTEN
TUBE AMPLIFIERS USING ELECTRON GUN N63-23515 24-09	SHEET AT VERY HIGH TEMPERATURES NASA-TN-D-1310 N63-12926 07-10
TUMOR TOTALNETS ASSESSED THESE SHEETS MA-MADAY	FLOW AND FRACTURE OF ZONE REFINED TUNGSTEN -
FORCE ACTING ON EQUILIBRIUM OF CELL CAUSING GROWTH OF TUMOR IN VICINITY OF NORMAL ORGANIC CELLS N63-18951 18-16	DEFORMATION MODES OF TUNGSTEN SINGLE CRYSTALS - INDUCTION-TYPE ZONE-MELTER APPARATUS Q-81973-1 N63-13054 07-18
BIOLOGICAL, MEDICAL RESEARCH - BIOMEDICINE, ANIMAL STUDIES OF RADIATION DAMAGE, AMINO ACID	TUNGSTEN EMITTERS FOR ION PROPULSION SYSTEM ASD-TDR-62-756 N63-13198 07-18
BIOSYNTHESIS, DYNAMICS OF TUMOR GROWTH ANL-6723 N63-20436 20-16	COMPOSITION OF PURE ALUMINUM AND NIOBIUM BY ARC-
CONTRACTOR OF THE SECTION OF THE SEC	MELTING USING TUNGSTEN ELECTRODE EUR-132.F
SA ZINC TUNGSTATE MEASUREMENT OF OPTICAL CONSTANTS OF MAGNESIUM	FLOW AND FRACTURE OF INDUCTION ZONE-REFINED
OXIDE AND CALCIUM TUNGSTATE AFCRL-63-454 N63-15826 13-25	TUNGSTEN Q-81973-2 N63-13529 08-17
TUNGSTEN	OXIDATION OF TUNGSTEN-THORIUM ALLOY - COMPARISON
ELECTRON-BEAM WELDING OF TUNGSTEN DMIC-MEMO-152 01-17	WITH UNALLOYED TUNGSTEN RAC-1032 N63-13556 08-18
ROLL-FORMED TUNGSTEN NOZZLE COMPONENTS N63-10169 01-17	JOINING OF REFRACTORY METALS, TUNGSTEN USING NICKEL OR PALLADIUM ACTIVATORS
TWO-PHASE TUNGSTEN-NICKEL-IRON COMPOSITES ASRL-TR-94-4 N63-10188 01-33	WAL-TR-460.54/1-2 N63-13980 09-17 REFRACTORY METAL PROTECTIVE SYSTEMS RESEARCH -
EFFECT OF RARE-EARTH SCAVENGERS ON PROPERTIES OF	MOLYBDENUM, NIOBIUM, TUNGSTEN, TANTALUM - BIBLIOGRAPHY
TUNGSTEN AND MOLYBDENUM DRI-2068 N63-10289 01-18	TDR-169/3240-31/TR-2 N63-14236 10-19
EXPERIMENTAL PERFORMANCE OF AN ION ROCKET ENGINE USING A POROUS-TUNGSTEN EMITTER	EFFECT OF OXYGEN ON MECHANICAL PROPERTIES OF TUNGSTEN - TENSILE STRENGTH NASA-TN-D-1581 M63-14403 10-07
NASA-TN-D-1321 N63-10327 01-27	TRAVELING WAVE TUBES, CRYSTAL LAMPS, CERAMIC
ULTRASONIC INSPECTION OF TUNGSTEN ROUND ROBIN BILLETS NO. TWO-214	WINDOWS, MAGNETS, SECONDARY EMISSION FROM TUNGSTEN SURFACE BOMBARDMENT, CRYSTAL FIELDS, GASEOUS MASER
The same of the sa	N63-14414 10-01
LIFE TESTS, EVAPORATION RATES, AND PULSED EMISSION MEASUREMENTS ON A TUNGSTEN-BARIUM ORTHOSILICATE DISPENSER CATHODE	SECONDARY EMISSION FROM CLEAN TUNGSTEN SURFACE BOMBARDED BY H, HE, N, NE, O, AR, & KR POSITIVE IONS NG3-14420 IO-23
AFCRL-62-110 N63-10437 01-09	SPECTROPHOTOMETRIC DETERMINATION OF URANIUM IN
MATERIALS FOR ROCKET NOZZLES N63-10919 02-13	MIXTURES OF URANIUM AND TUNGSTEN NA3-14529 10-07
EFFECT OF TUNGSTEN POWDERS ON PLASMA SPRAYED AND SINTERED STRUCTURES N63-10963 02-18	ACTIVATED SINTERING OF TUNGSTEN N63-14670 10-18
CESIUM COATED TUNGSTEN ELECTRODES, SURFACE STABILITY, EVAPORATION RATES, VOLTAGE BREAKDOWN N63-10999 02-23	ACTIVATED SINTERING AND DENSIFICATION OF TUNGSTEN WITH TRANSITION ELEMENTS N63-14671 10-18
METHODS FOR ANALYZING TUNGSTEN ORES INCLUDING IMPURITY ELEMENTS IN TUNGSTEN CONCENTRATES BM-RI-6148 N63-11855 04-07	GRAIN BOUNDARY DIFFUSION IN TUNGSTEN SINTERING - IRIDIUM DECELERATION OF INTERFACIAL DIFFUSION N63-14672 10-10
CHARLES OF INCIDENT AND THE BUILDING TO THE STREET	THE RESERVE OF THE STREET WAS A POST OF THE PARTY OF THE

NAL DIFFUSION N63-14672 10-10 PHASE RELATIONSHIPS IN ACTIVATED SINTERING OF TUNGSTEN, IRON 6 COBALT - TRANSITION ELEMENTS COMPARED N63-14673 10-18 LIQUID PHASE AND ACTIVATED SINTERING OF TUNGSTEN-INFLUENCE OF ALLOYS - CARRIER PHASE SINTERING N63-14674 10-18

CLUSTER MODEL PROPOSED FOR DISPENSING OF ACTIVATOR

N63-12375 06-18

PHYSICAL METALLURGY OF TUNGSTEN AND TUNGSTEN BASE ALLOYS RELATED TO TENSILE STRENGTH AND DEFORMATION MADD-TR-60-37, PT. III M63-12276 05-18

FUSED-SALT ELECTROLYTES FOR REFINING TUNGSTEN -

FUSED SALT ELECTROLYSIS OF LOW GRADE TUNGSTEN ORE

IMPURITY REMOVAL BM-RI-6154

6-07 HOT 6-23 DE 6-07

6-17 6-17 EN 7-18

7-18 -10 Well I -18

-17 N. -18

-17

-18

-07

TEN SER -01

-23

18

18

18

ATORS IN CESSIUM-ON-TUNGSTEN THERMIONIC SURFACE - CATHODE TUBE ELECTRON EMISSION, EVAPORATION RATE N63-14037 11-18
TUNGSTEN & TUNGSTEN ALLOY SHEET ROLLING PROGRAM N63-14854 11-17
MACHINING OF REFRACTORY METALS - TUNGSTEN, IANTALUM-TUNGSTEN, MOLYBDENUM-TITANIUM ALLOYS AND STEEL
ASO-TR-7-532A/V/ N63-14882 11-18
MACHINING OF REFRACTORY MATERIAL - TUNGSTEN, MOLYBDENUM, NIOBIUM, PYROCERAM AND ALLOYS ASD-TR-7-532A/VI/ N63-14883 11-18
MACHINING OF REFRACTORY MATERIAL, TUNGSTEN, HIDBIUM AND ALLOYS, RESIN, ZIRCONIUM OXIDE AND ZIRCONIUM AND ALUMINUM OXIDE COATINGS ASD-TR-7-532A/VII/ N63-14884 11-18
SOLID STATE DIFFUSION BONDING OF TUNGSTEN TO TUNGSTEN UNDER SURFACE PRESSURE AT HIGH TEMPERATURE
LA-2751 N63-14892 11-17
PLASTIC DEFORMATION THEORY FOR CEMENTED ALLOYS - MATERIALS FOR TUNGSTEN FIBER ROCKET NOZZLE MATRIX, COPPER-NICKEL, SILICON, ALUMINUM & TITANIUM N63-15411 12-18
CESIUM PLASMA GENERATOR - IONIZATION OF CESIUM ON
HOT-TUNGSTEN PLATE N63-15477 12-24
TUNGSTEN TO GRAPHITE BONDING N63-15548 12-17
NOTCH SENSITIVITY OF REFRACTORY METALS - NIOBIUM, TUNGSTEN, TANTALUM, MOLYBDENUM, AND MOLYBDENUM-TITANIUM ALLOYS
ASD-TDR-62-1004 N63-15689 12-18
EJECTION OF ELECTRONS FROM SURFACE OF TUNGSTEN BY LOW ENERGY ION, HELIUM, HYDROGEN, NITROGEN AND DXYGEN
R-161 N63-15745 12-25
FIELD ION MICROSCOPE OBSERVATION OF ADATOMS - NITROGEN ON TUNGSTEN - ADSORPTION N63-15751 12-23
SELF-DIFFUSION AND DIFFUSION OF RHENIUM TRACER IN
SINGLE-CRYSTAL TUNGSTEN LA-2880 N63-15929 13-25
MELTING, EXTRUDING AND MECHANICAL PROPERTIES OF
RELECTRON-BEAM-MELTED TUNGSTEN NASA-TN-D-1707 N63-16161 13-18
HIGH TEMPERATURE OXIDATION-RESISTANT COATINGS FOR TANTALUM ALLOYS, NIOBIUM, TUNGSTEN, AND MOLYBDENUM ASD-TOR-63-160 N63-16496 14-17
SINGLE-CRYSTAL TUNGSTEN THERMIONIC CONVERTER AFCRL-63-452 N63-16736 14-06
TUNGSTEN SHEET ROLLING PROGRAM - OCT 1961 TO JAN
ASC-TR-7-827/111/ N63-16964 14-18
TUNGSTEN SHEET ROLLING PROGRAM - JAN 1962 TO APR
1962 ASC-TR-7-827/EV/ N63-16965 14-18
TUNGSTEN SHEET ROLLING PROGRAM - APR 1962 TO SEPT
1962 ASC-TR-7-827/V/ N63-16966 14-18
TUNGSTEN SHEET ROLLING PROGRAM - SEPT 1962 TO JAN 1963
ASC-TR-7-827/VI/ - 50 4 28 ACCOUNT N63-16967 14-18
TUNGSTEN SHEET ROLLING PROGRAM - FEB 1963 TO APR
ASC-TR-7-827/VII/ N63-16968 14-18

AFCRL-63-450 N63-17002 15-15
SURFACE IONIZATION OF CESIUM ON POROUS TUNGSTEN, RHENIUM, HOLYBDENUM, AND TANTALUM - COMPARISON OF POROUS MATERIAL AND SOLID SURFACE DATA M63-17658 16-18
WORK HARDENING MECHANICS AND DEFORMATION OF BODY- CENTERED-CUBIC METALS - NIDBIUM AND TUNGSTEN ASD-TDR-62-354, PT. II N63-17672 16-18
SPHERICAL POWDER AND WIRE BUNDLE TUNGSTEN TON SOURCES FOR IONIZATION OF CESIUM VAPOR N63-17707 16-18
TUNGSTEN AND HOLYBDENUM METALLURGY AND METALLOGRAPHY NASA-TT-F-135
OXIDATION OF TUNGSTEN AT ULTRAHIGH TEMPERATURES N63-18738 17-07
CHEMICAL ANALYSIS - DETERMINATION OF TRACE AMDUMTS OF ZIRCONIUM AND TITANIUM IN TUNGSTEN ASD-TDR-63-358 N63-19041 18-18
FORGING PARAMETERS FOR FIRST STAGE POLARIS MODEL AS TUNGSTEN NOZZLE INSERTS N65-19932 18-16
FORGING, RING ROLLING, AND SHEAR SPINNING TUNGSTEN NOZZLE INSERTS FOR ADVANCED POLARIS MOTORS N63-19381 18-17
SUBSTRUCTURE AND NECHANICAL PROPERTIES OF BODY CENTERED CUBIC REFRACTORY METALS STUDIED BY ELECTRON MICROSCOPY OF TUNGSTEN WIRE & CRYSTALS NEGSTEN STATES OF THE STA
X-RAY BACK-REFLECTION DIVERGENT BEAM STRAIN ANALYSES OF TANTALUM AND TUNGSTEN SINGLE CRYSTALS N63-19659 19-18
SOLVENT EXTRACTION - SPECTROPHOTOMETRIC METHOD FOR DETERMINATION OF COPPER IN TUNGSTEN METAL AND TUNGSTEN OXIDE BA-81-6277 N63-19800 19-07
73.1142
THERRAL EXPANSION AND ATOMIC VIBRATION AMPLITUDES FOR TITANIUM CARBIDE, TITANIUM MITRIDE, ZIRCONIUM CARBIDE, ZIRCONIUM MITRIDE, AND PURE TUNGSTEM C-17 N63-19922 19-18
HIGH TEMPERATURE REFRACTORY MATERIAL PROGRAM - STRESS RUPTURE AND IRRADIATION DATA FOR TUNGSTEN, MOLYBDENUM, AND TANTALUM GEMP-25A N63-20138 20-18
MATRIX AND COMPOSITE MATERIALS OF ZIRCOMIUM OXIDE, THORIUM OXIDE, AND MAGNESIUM OXIDE WITH TUNGSTEN - PROTECTIVE COATINGS FOR THERMAL INSULATION MASA-CR-50877 20-19
MECHANICAL AND PHYSICAL PROPERTIES OF TUNGSTEN
SHEET AND TZM MOLYBDENUM SHEET N63-20332 20-18
CRACK INITIATION IN METALLIC MATERIALS - TUNGSTEN MET-E-1040-630502 N63-20370 20-18
HIGH-CURRENT-DENSITY CYLINDRICAL CONCAVE POROUS TUNGSTEN EMITTER FOR ION THRUSTORS AIAA PAPER-63029-63
EFFECT OF FUSE VARIABLES ON TUNGSTEN IGNITER BURNING RATE SC-4791/RR/ N63-20944 21-26
SC-4791/RR/ N63-20944 21-26 HETALLURGICAL RESEARCH OF TUNGSTEN AND ITS ALLOYS
M63-21015 21-16
COMPONENT AND PROCESS SPECIFICATION FOR PYROTECHNIC DELAY MIXTURE BASED ON TUNGSTEN SC-4792/RR/ 1000-21655 22-18
TENSILE, THERMAL SHOCK & HOT GAS EROSION TESTS OF TUNGSTEN-COATING COMBINATIONS AND CONSTRUCTION OF FURNACE FOR HIGH TEMPERATURE TESTS ASD-TOR-63-459 M63-21802 22-19
A COUNTY OF THE PARTY OF THE PA

PERFORMANCE CHARACTERISTICS AND EMISSION COOLING
MEASUREMENTS TAKEN ON CESSUM THERMIONIC CONVERTER
WITH THORIUM-TUNGSTEN EMITTER

TRN TPRR YES

SA SA

THERMIONIC ELECTRON EMISSION CURRENTS FROM CESIUM COATED TUNGSTEN ACCELERATOR ELECTRODES IN ION THRUSTERS	DIFFUSION BONDING OF TUNGSTEN ALLOYS WAL-TR-465.54/4 N63-15911 13-27
NASA-TN-D-1879 N63-21890 22-06	PLASTIC DEFORMATION OF CEMENTED ALLOYS - ZONE SWEEPING OF CEMENTED TUNGSTEN ALLOYS
ALLOYING EFFECT ON TENSILE PROPERTIES AND MICRO- STRUCTURE OF TUNGSTEN-FIBER-REINFORCED COMPOSITES	ARF-2182-24 N63-16192 13-11
NASA-TH-D-1568 N63-22110 22-18	BINARY AND TERNARY PHASE DIAGRAMS OF NIOBIUM,
STRESS-STRAIN DIAGRAMS FOR TUNGSTEN-FIBER-	MOLYBDENUM, TANTALUM AND TUNGSTEN DMIC-183 N63-16586 14-18
REINFORCED COPPER COMPOSITES	ROUNT CHERT - BAZING STORES THE STORES OF THE STORES
NASA-TN-D-1801 N63-22112 22-18	SINGLE CRYSTAL CONDUCTIVITY - ELECTRIC AND MAGNETIC PROPERTIES FOR TUNGSTEN BRONZE AND
DETERMINATION OF COBALT AND NICKEL IN TUNGSTEN BY	RUBIDIUM TUNGSTEN BRONZE N63-17264 15-18
COMBINED ION EXCHANGE X-RAY SPECTROGRAPHIC METHOD BM-R1-6308 N63-22235 23-18	HIGH TEMPERATURE REACTOR MATERIAL - STRESS-RUPTUME
LOW TEMPERATURE NONAQUEOUS BATHS FOR ELECTRO-	MOLYBDENUM, TANTALUM, TUNGSTEN - RADIATION EFFECTS GEMP-23A N63-17554 16-33
DEPOSITING MOLYBDENUM, TUNGSTEN & VANADIUM IN	
ORGANIC SOLVENTS BM-RI-6303 N63-22471 23-18	STRUCTURAL ANALYSIS OF REFRACTORY ALLOYS - CHROMIUM, MOLYBDENUM, AND TUNGSTEN
	DMIC-182 N63-17587 16-18
TUNGSTEN THIN SECTION FORGING ER-5498 N63-22820 23-18	CONSUMABLE-ELECTRODE ARC MELTING OF TUNGSTEN BASE
	ALLOYS
HIGH TEMPERATURE METAL REACTIONS - EVALUATION OF ELECTRON-EMISSION BEHAVIOR FOR DETECTION OF	DMIC-MEMO-168 N63-18631 17-18
CARBON IN TUNGSTEN & RHENIUM	PROCESSING AND PROPERTIES OF TANTALUM RICH ALLOYS
BMI-1649 N63-22904 23-18	IN TANTALUM-TUNGSTEN-HAFNIUM SYSTEM WANL-PR-M-004 N63-19144 18-18
ELECTRIC SORPTION AS POSSIBILITY OF REDUCING	
TIME OF ADSORBING GASEOUS RESIDUES ON TUNGSTEN EMITTER OF A MUELLER MICROSCOPE	DEFORMATION AND ANNEALING OF TANTALUM AND TANTALUM-TUNGSTEN ALLOYS AT CRITICAL STRESS
FTD-TT-63-377/162 N63-23640 24-09	LA-2871 N63-19631 19-18
PHYSICAL AND MECHANICAL PROPERTIES OF OVEN CURED	DESTRUCTIVE TESTING OF TUNGSTEN ALLOY SHEET METAL
OVERLAYS, REINFORCEMENTS AND TUNGSTEN SHAPES FOR	ASC-TR-7-827/VIII/. N63-19893 19-17
ASSET GLIDER ER-1115-21 N63-23668 24-02	TUNGSTEN ALLOYS FOR ROCKET NOZZLES
TUNGSTEN ALLOY	N63-19923 19-18
VACUUM ARC MELTING OF A TUNGSTEN ALLOY	ALKALI-SILICATE DOPED ALLOYS AS BASE MATERIALS FOR
ASD-TDR-62-781 N63-10662 02-17	TUNGSTEN-BASE SHEET ALLOYS N63-20620 20-18
MOLYBDENUM- & TUNGSTEN-BASE ALLOY SHEET MATERIALS N63-12096 05-18	METALLURGICAL RESEARCH OF TUNGSTEN AND ITS ALLOYS N63-21015 21-18
PHYSICAL METALLURGY OF TUNGSTEN AND TUNGSTEN BASE	SOLID SOLUBILITY OF BORON AND BERYLLIUM IN
ALLOYS RELATED TO TENSILE STRENGTH AND DEFORMATION	TUNGSTEN - TUNGSTEN-RORON, TUNGSTEN-RERYLLTUM AND
WADD-TR-60-37, PT. III . N63-12276 05-18	TUNGSTEN-CARBON SYSTEMS ASD-TDR-62-25, PT. 2 N63-22127 22-18
DEVELOPMENT OF WORKABLE MOLYBDENUM- AND TUNGSTEN-	THE SHEARS ADDRESS TO VOICE THE CHANNEL HARDON
BASE ALLOYS ASD-TDR-62-508 N63-12285 05-18	ELECTRON TRANSFER OF COMPONENTS IN ALLOY OF MOLYBDENUM WITH FIFTEEN ATOMIC-PERCENT TUNGSTEN
ZONE REFINING OF CEMENTED TUNGSTEN-BASE ALLOYS -	JPRS-21406 N63-22906 23-18
PLASTIC DEFORMATION THEORY	TUNGSTEN COMPOUND
WAL-TR-372/32-3-T1 N63-12376 06-18	CEMENTED TUNGSTEN CARBIDE WITH TITANIUM DIBORIDE ADDITIONS
PLASTIC DEFORMATION OF CEMENTED ALLOYS - DUCTILITY	BM-RI-6095 N63-10126 01-18
OF TUNGSTEN FIBER-COPPER-NICKEL COMPOSITES IN TENSION AND COMPRESSION, EFFECT OF ADDITIVES	PHASE RELATIONSHIPS OF MOLYBDENUM, NIGBIUM AND
WAL-TR-372/32-3-T3 N63-12377 06-18	THINGSTEN MODITIES - CARRIDES AND STITCINES -
OXIDATION OF TUNGSTEN-THORIUM ALLOY - COMPARISON	ANNOTATED BIBLIOGRAPHY SB-63-9 N63-18872 18-18
WITH UNALLOYED TUNGSTEN	SOLVENT EXTRACTION - SPECTROPHOTOMETRIC METHOD
RAC-1032 N63-13556 08-18	FOR DETERMINATION OF COPPER IN TUNGSTEN METAL
ARC-CASTING MOLYBDENUM- AND TUNGSTEN-BASE ALLOY N63-14486 10-18	AND TUNGSTEN OXIDE BM-RI-6277 N63-19800 19-07
	LUCKALOT CASI-MALL MARGINALISM LUCK TATHO WITHIN
TUNGSTEN & TUNGSTEN ALLOY SHEET ROLLING PROGRAM N63-14854 11-17	PHYSICAL AND PREPARATIVE PROPERTIES OF TRANSITION METAL CHELATES - MOLYBDENUM, TUNGSTEN, AND NICKEL
The state of the second	COMPOUNDS
MACHINING OF REFRACTORY METALS - TUNGSTEN, TANTALUM-TUNGSTEN, MOLYBDENUM-TITANIUM ALLOYS AND	ARL-63-160 N63-22397 23-07
STEEL ASD-TR-7-532A/V/ N63-14882 11-18	TUNGUSK METEDRITE VELOCITY AND ENERGY OF THE TUNGUSK METEORITE
ALTE CETTINES CONTRACTOR CONTRACT	NASA-TT-F-89 N63-11609 04-20
DEVELOPMENT OF TUNGSTEN-SILVER ALLOYS FOR ROCKET NOZZLES - SINTERING TECHNIQUES AND IMPREGNATION	COMETARY NATURE OF TUNGUSK METEORITES
WITH SILVER-LITHIUM ALLOYS	N63-16664 14-05
WAL-TR-372/32-5, T-3 N63-15199 11-18	ASTRONOMICAL CHARACTERISTICS OF TUNGUSK METEORITE
VACUUM ARC MELTING OF TUNGSTEN BASE NIOBIUM	AND MAP OF FALL AREA
ALLOY - EFFECT OF MELTING RATE ON INGOT CHARACTERISTICS	STL-TRANS-71 N63-17244 15-09
ASD-TDR-63-296 N63-15881 13-18	TUNING PROTECTION ASSESSMENT AND PROTECTION OF THE PROTECTION OF T
	SA FREQUENCY TUNING

13-27

3-18

4-18

5-18 TURE ECTS 6-33

6-18 ASE 7-18 OYS 8-18

9-18 FAL 9-17 P-18 FOR 9-18

-18

-18

E -18

-18

-07 DN EL

-29 -05 TE

A35 7西

MICROELECTRONICS RED AT MRL - TUNNEL BIDDE FABRICATION, THIN FILMS, P-M JUNCTIONS, AND RADIATION EFFECTS M59-17358 15-09
COMBINATION OF DIPOLE ANTENNA WITH TURNEL DIODE NA3-18086 15-09
TUNNEL DIQUE DIPOLE ANTENNAFIER /ANTENNA AND AMPLIFIER/ - INPUT IMPEDANCE, GAIN AND MOISE MEASUREMENTS N63-13651 17-09
THEORY FOR BROADBAND TUNNEL DIGDE AMPLIFIERS RADC-TOR-62-191 N63-21225 21-09
LOW MOISE TURNEL DIODE MIXERS AND CONVERTERS-018 RADC-TDR-63-325 N63-22121 22-09
SOLID STATE AMPLIFIERS - PARAMETRIC AMPLIFIERS, TUNNEL DIODE AMPLIFIERS AND RECEIVER SYSTEMS ASD-TDR-63-845 N63-23137 24-08
TUNNELING BETWEEN SUPERCONDUCTORS WITH OXIDE FILM INSULATION (44) 11-25
APPLICATION OF TUNNELING TO ACTIVE DIODES AFCRL-62-522 N63-15690 12-09
ARMY INSTRUMENTATION PROGRAM - ORGANIC FILM TUNNEL EMISSION - SOLID STATE TRIODE SMIR-63-1 N63-15788 13-09
QUANTUM MECHANIC TUNNELING THROUGH THIN BARRIERS - SOLID STATE STUDY - MICADWAYE SPECTAUM STUDY M63-18710 17-25
RESEARCH, DEVELOPMENT, AND FABRICATION OF TUNNEL EMISSION CATHODES - IMPROVEMENTS IN VACUUM SYSTEM FOR METAL FILM DEPOSITION N63-19432 19-09
TUNNEL EMISSION CATHODES - CURRENT MEASUREMENT
TUNNELING, THERMIONIC EMISSION, & DIELECTRIC CONSTANT OF STRUCTURE CONTAINING TWO METAL SURFACES SEPARATED BY THIN FILM INSULATION
TR-1162 81-679 . N63-22350 23-09
TURBINE TRANSPORT OF THE STATE
LIMITATIONS ON TURBOJET ENGINE DESIGN BY TURBINES WITH DOWNSTREAM STATORS MACA-RM-E54J14 N63-12507 06-27
BLADE TEMPERATURES AND COOLANT PRESSURE LOSSES FOR CASCADE OF AIR-COOLED TURBINE ROTOR BLADES NACA-RH-E58E20 N63-12518 O6-DI
COMBINED COMPRESSOR COOLANT INJECTION AND AFTERBURNING FOR TURBOJET ENGINE THRUST AUGMENTATION
HUB-TIP RADIUS RATIO TRANSONIC TURBINE FOR SECONDARY FLOW - STATOR CONFIGURATIONS DESIGNED TO ELIMINATE BLADE WAKES AND SECONDARY-FLOW EFFECTS
MACA-RM-ESTGOS N63-12546 O6-03 HUB-TIP RADIUS RATIO TRANSONIC TURBINE FOR SECONDARY FLOW - TURBINE WITH LOW-VELOCITY TURBINE
STATOR AND STANDARD ROTOR HACA-RH-ESTEO9 8 863-12547 06-0
APPROXIMATION METHOD TO ESTIMATE DESIGN POINT EFFICIENCY OF AXIAL FLOW TURBINES N63-14530 1 10-0
COMPRESSIBLE POTENTIAL FLOW THROUGH THERMAL TURBINE - NEW METHODS OF FLOW CALCULATION N63-15109 11-1
HYPERVELOCITY GAS DYNAMIC STUDIES USING AMOUNT HYPERVELOCITY IMPULSE TURBINE TUNNEL SH-41379-3 AMOUNT HAD-15604 12-2-2

11-81

11-1

-21

11-15-

15.

15

25

01

CHARACTERISTICS FOR ALKALI METAL TURBOFLECTRIC SPACE POWER SYSTEM NASA-TN-D-1710 N63-15770 13-06	TURBOMACHINES - FLOW MEASUREMENT ALONG ROTATING BLADE OF DNE-STAGE AXIAL TURBINE - FLOW PROCESS AS FUNCTION OF BLADE HEIGHT
	N63-20867 21-02
TURBINE PUMP MISSILE PROPELLANT - TRANSONIC SPEED NACA-RH-E57J29 N63-17466 15-06	TURBOMACHINES - EFFECT OF BLADE PROFILE THICKNESS ON LOSS FACTORS FROM COMPRESSOR CASCADES AT HIGH
EFFECT OF SULFUR IN JET FUEL ON TURBINE INLET GUIDE VANES - 12-HOUR METAL LOSS TESTS USING FUELS WITH AND WITHOUT CONTAMINATION AND SUPERALLOYS	SUBSONIC SPEEDS - MACH AND REVNOLOS NUMBER EFFECTS N63-20869 21-02
N63-19035 18-26 AXIAL AND MIXED FLOW TURBINES, COMPRESSORS, PUMPS,	TURBONACHINES - FLOW CALCULATION THROUGH MULTISTAGE TURBINES WITH EMPHASIS ON BLADE DESIGN N63-20073 21-02
FANS AND BLOWERS - BIBLIOGRAPHY BIB-10 N63-20055 20-17	TURBINE BUCKETHOLE YATEMALAY TERUS BATTATALAKATAT
DESIGN OF SINGLE-STAGE TURBINE FOR ROTOR ENTERING AT SUPERSONIC SPEED - PERFORMANCE CHARACTERISTICS	FATIGUE TESTING OF TURBINE BUCKETS - PART IT, METHOD FOR VIBRATION, TEMPERATURE, AND STRESS TESTS M63-13235 07-33
NACA-RM-E58F20A 244 783 1863-20534 20-27	FATIGUE TESTING OF TURBINE BUCKETS - PART 2. YESTS
TURBOMACHINES - SECONDARY LOSS IN INCOMPRESSIBLE FLOW AT AXIAL TURBINE CASCADES - EFFECT OF REYNOLDS NUMBER AND TURBINE BLADE VARIABLES	UNDER STATIC AXIAL AND VIBRATIONAL BENDING LODG N63-13236 07-33
N63-20865 421-02	TURBINE ENGINE SOVIET DESIGNING OF AIRCRAFT GAS TURBINES
TURBOMACHINES - TRANSFERABILITY OF MEASUREMENTS OF SECONDARY FLOW OF COMPRESSOR CASCADE IN CASCADE	AID-62-181 N63-10278 01-33
TUNNEL TO ROTATING TURBINE WHEEL N63-20866 21-02	TESTING METHODS FOR GAS TURBINE ENGINE LUBRICANTS FOR SUPERSONIC TRANSPORT N63-17846 16-17
TURBOMACHINES - FLOW MEASUREMENT ALONG ROTATING BLADE OF ONE-STAGE AXIAL TURBINE - FLOW PROCESS AS FUNCTION OF BLADE HEIGHT	ADVANCED TURBINE ENGINE LUBRICANT REQUIREMENTS THERMOSTABILITY, OXIDATION RESISTANCE, MINIMUM DEPOSIT FORMATION N63-17848 16-17
M63-20867 21-02	LABORATORY, TEST RIG, STATIONARY ENGINE, AND
TURBOMACHINES - IMPELLER BLADING OF AXIAL COMPRESSOR STAGE CALCULATED BY METHODS DERIVED FROM CASCADE THEORY N63-20872 21-02	FLIGHT ENGINE TEST METHODS FOR EVALUATING TURBINE ENGINE LUBRICANTS N63-17849 16-17
TURBINE BLADE	TURBINE ENGINE PERFORMANCE VERSUS LUBRICANT DEPOSITS N63-17856 16-17
CASTED HEAT RESISTANT BILLETS FOR COMBUSTION TURBINE BLADES FTD-1T-62-789/162 N63-10368 01-17	THIN FILM OXIDATION TEST OF LUBRICANTS FOR GAS- TURBINE ENGINES 16-17
FUEL-COOLED TURBINE BLADES WITH RETURN-FLOW TYPE	TURBO ELECTRIC CONVERSION
OF FINNED COOLANT PASSAGES NACA-RM-E57003 N63-12512 06-11	ANALYTICAL STUDY OF TURBINE-GEOMETRY CHARACTERISTICS FOR ALKALI METAL TURBOELECTRIC SPACE POWER SYSTEM
CASCADE INVESTIGATION OF COOLING CHARACTERISTICS OF AIR-COOLED TURBINE BLADE FOR USE IN TURBOPROP	NASA-TN-D-1710 N63-15770 13-06
ENGINE NACA-RM-E57D19 N63-12513 06-27	NIOBUM BASE ALLOY AS ALKALI METAL CONTAINMENT MATERIAL FOR NUCLEAR TURBOELECTRIC SPACE POWER SYSTEMS
SUPERSONIC FLOW OF TWO TURBINE BLADE SECTIONS WITH TURNING ANGLE OF 160-DEGREES	NASA-CR-50339 N63-18397 17-16
NACA-RH-L57F21 N63-12521 06-27	TURBOFAN SUPPRESSION OF JET NOISE FROM COAXIAL TURBOFANS,
INVESTIGATION OF HIGH SUBSONIC TURBINE WITH HIGH ROTOR BLADE SUCTION-SURFACE DIFFUSION NACA-RM-E56118 NG3-12532 06-06	NOZZLES AND EJECTORS WITH EMPHASIS ON THE NEAR FIELD ASD-TDR-62-578 N63-14057 09-21
HEAT TRANSFER OF AIR-COOLED TURBINE BLADE FOR	TURNOFAN ENGINE
TURBOPROP ENGINE NASA-TM-X-85 N63-12972 07-13	CF JET ENGINE, JET PROPULSION ROTATING-STALL LIMITS IN SUPERSONIC TURBOFAN
ABELIAN FUNCTION AND AERODYNAHIC APPLICATIONS -	ENGINE NACA-RM-E57G26A N63-12514 06-21
POTENTIAL FLOW AND SWEEPBACK FIN, SLENDER BODIES, COMPRESSOR BLADE-TURBINE BUCKET COUPLING ONERA-109/1962/ N63-13528 08-11	SUPPRESSION OF JET NOISE FROM COAXIAL TURBOFANS, NOZZLES AND EJECTORS WITH EMPHASIS ON THE NEAR
CREEP AND STRESS ANALYSIS OF TURBINE DISK HODELS	FIELD ASD-TDR-62-578 09-21
AT HIGH TEMPERATURE IN STEEL TEST CHAMBER T1L/T-4957 11-33	TURBOGENERATOR-804
TURBINE ROTOR BLADE TIP FLUID FLOW	HIGH TEMPERATURE LIQUID METAL HEAT TRANSFER - LIQUID METAL TWO-PHASE FLOW AND HEAT TRANSFER AS
T1L/T-5325 N63-16903 14-11	APPLIED TO RANKINE CYCLE TURBOGENERATOR N63-15017 11-1
AIR COOLED GAS TURBINE BLADE N63-16963 14-34	LUBRICATION OF TURBOPOWER SYSTEMS BEING DEVELOPED
IMPROVING THERMAL FATIGUE AND STRESS RUPTURE LIFE OF FIRST STAGE TURBINE BLADES OF J-79-5 ENGINE	FOR SPACECRAFT NUCLEAR ELECTRIC PROPULSION AND AUXILIARY SYSTEMS N63-17829 16-17
R63FPD146 18-33	TURBOJET AIRCRAFT NAVIGATION OF TURBOJET AIRCRAFT - DATA PROCESSING
TURBOMACHINES - SECONDARY LOSS IN INCOMPRESSIBLE FLOW AT AXIAL TURBINE CASCADES - EFFECT OF	LB-31103 D3 FURT TOTAL - 2328UG2 MORTS 14 FRANCE CO. C.
REYNOLDS HUMBER AND TURBINE BLADE VARIABLES N63-20805 21-02	MANEUVER ACCELERATION OF COMMERCIAL TURBOJET

LIQUID METAL TURBOJET ENGINE CYCLE FOR NUCLEAR

MA NACA-RM-E51030 SA MULJEH -ALA SO N63-17986 ME 16-27

OBTAINING THRUST AUGMENTATION IN TURBOJET ENGINES

21-02

NESS

ECTS

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ESTS OS 7-33

1-33

WTS

6-17

5-17

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27

21

27

3

IGH

USING GAS DYNAMIC PRINCIPLES FOR REGULATING MOZZLE MASA-TN-0-1801/032Y0 803 EM3HD2 M63+157742AJ13-04 IFF, THEBULENCE AND INPUT TRANSPORT TRANSPORT TO THE TRANSPO F JET ENGINE, JET PROPULSION
FACILITIES FOR TESTING TURBOJET ENGINE COMPONENTS COMBUSTION-CHAMBER LENGTH INFLUENCE ON TURBOJET ENGINE AFTERBURNER PERFORMANCE NACA-RM-E54E06 01 NO NOTESBOOKS OF THE PERFORMANCE NACA-RM-E54E06 01 NO NOTESBOOKS OF THE PERFORMANCE NACA-RM-E54E06 01 NO NOTESBOOKS OF THE PERFORMANCE NACA-RM-E54E06 01 NOTESBOOKS OF THE PE NA3-20531 20-27 INTERNAL AND EXTERNAL COMPRESSION STUDIES OF TURBOJET INTAKES AND EXHAUSTS FOR SUPERSONIC TURBOMACHINE AERODYNAMICS - TURBOMACHINE BLADE, TURBOJET ENGINE, COMPRESSOR, CASCADE, AXIAL FLOW - AND FLOM MEASUREMENY AVA-RR-62-02 M63-20864 21-02 TRANSPORT AIRCRAFT MOTERIA THE MES-12483 MOS-02 LIMITATIONS ON TURBOJET ENGINE DESIGN BY TURBINES WITH DOWNSTREAM STATORS MACA-RM-E54J14 M63-12507 06-27 TURBOMACHINES - PERFORMANCE OF TURBOJET ENGINES DURING STARTING BY WINDHILLING N63-12507 06-27 101 TADE N63-20875 32 21-02 EFFECT OF COMBUSTION GAS PROPERTIES ON TURBOJET ENGINE PERFORMANCE + ANALYSIS WITH HYDROGEN FUEL NACA-RM-E55317A N63-12509 06-26 LOW VISCOSITY BEARING STABILITY IN HIGH SPEED EVALUATION OF FLAME HOLDERS FOR AFTERBURNERS WITH HIGH INLET VELOCITY NACA-RM-E56D101 A 30 MO1018 AMIX N63-12510 06-02 TURBOHACHINERY AND SPACE POWER SYSTEMS TURBONACHINERY BEARING CONFIGURATIONS - TESTS FOR LONG TERM, UNATTENDED OPERATION WITH LOW VISCOSITY LUBRICANTS IN SPACE ENVIRONMENT EFFECT OF PRESSURE LEVEL ON AFTERBURNER WALL TEMPERATURE NACA-RH-E58001 N63-12515 06-27 FLOW THROUGH CASCADE OF ARROFOLLS - TURBONACHINES
AND SOLID WALL WIND TUNNELS
ARC-CP-619 ARROWS - M63-16166 13-0 OFF-DESIGN PERFORMANCE OF DIVERGENT EJECTORS NACA-RM-E58G10A N63-12517 06-27 FULL-SCALE AND QUARTER-ANNULUS DUCT COMPARISONS OF SHORT TURBOJET COMBUSTOR PERFORMANCE WITH HYDROGEN MA N63-16166 MA:13-03 AXIAL- AND MIXED-FLOW TURBOHACHINES AND PUMPS -MACA-RH-FSADIA N63-12529 06-27 MU9 881200 NA3-20054 M 20-11 COMBINED COMPRESSOR CODLANT INJECTION AND AFTERBURNING FOR TURBOJET ENGINE THRUST TURBOMACHINE AERODYNAMICS - TURBOMACHIME BLADE, TURBOJET ENGINE, COMPRESSOR, CASCADE, AXIAL FLOM AND FLOW MEASUREMENT AVA-RR-62-02 AUGMENTATION NACA-RH-E54GO8 N63-12531 06-27 \$45000 MUT-R N63-20064 JA-21-02 FULL SCALE TURBOJET ENGINE TESTING OF FUELS -PENTABORANE-JP-4 MIXTURES AND TRIMETHYLBORATE AZEOTROPE PERFORMANCE TURBOMACHIMES - SECONDARY LOSS IN INCOMPRESSIBLE FLOW AT AXIAL TURBINE CASCADES - EFFECT OF REYNOLDS NUMBER AND TURBINE BLADE VARIABLES N63-20865 21-02 NACA-RM-E56G19 NA3-12542 06-26 EFFECT OF HIGH ALTITUDE ON PERFORMANCE & OPERATING CHARACTERISTICS OF TURBOJET ENGINES WITH HYDROGEN TURBOMACHINES - TRANSFERABILITY OF MEASUREMENTS OF SECONDARY FLOW OF COMPRESSOR CASCAGE IN CASCADE TUNNEL TO ROTATING TURBINE WHEEL AND JP-4 FUELS NACA-RH-E56E14 ONITAL THE JUNE N63-12907 - 07-27 EFFECT OF LUBRICATION LOADS & COMPOSITION ON BALL AND ROLLER BEARING FATIGUE IN TURBOJET ENGINES N63-13069 07-33 TURBONACHINES - FLOW MEASUREMENT ALONG ROTATING BLADE OF ONE-STAGE AXIAL TURBINE - FLOW PROCESS AS FUNCTION OF BLADE HEIGHT PERFORMANCE OF EXPERIMENTAL ANNULAR TURBOJET COMBUSTORS AT SIMULATED HIGH ALTITUDE SUPERSONIC TURBONACHINES - CALCULATION OF THE CASCADE ACCORDING TO STREAMLINE FLOW THEORY FLIGHT CONDITIONS NAGA-RH-E54A15 2/04T0302 JARANTHI N63-13863 94 09-26 92107309 A N63-20868 40:21-02 AIR INLET FOR TURBOJET ENGINES HAVING VARIABLE ANGLE THO-DIMENSIONAL COMPRESSION SURFACE AND FIXED-GEOMETRY SUBSONIC DIFFUSER TURBOMACHINES - EFFECT OF BLADE PROFILE THICKNESS ON LOSS FACTORS FROM COMPRESSOR CASCADES AT HIGH SUBSONIC SPEEDS - MACH AND REYNOLDS NUMBER EFFECTS N63-20609 21-02 NACA-RM-F57J02 TEST OF DIVERGENT EJECTOR, JET EXHAUST FROM H202 TURBOMACHINES - SUPERSONIC COMPRESSOR TESTS AND COMPARISON WITH CASCADE MEASUREMENTS IN A WIND TUNNEL 100 MINES NO. 20070 21-02 TURBOJET SIMULATOR NASA-TH-X-165 PRESSURE RECOVERY IN ADJUSTABLE SUPERSONIC INLET COMBINED WITH J34 TURBOJET ENGINE UP TO MACH 2.0 NACA-RH-E54H11 N63-13987 09-27 TURBONACHINES - AXIAL COMPRESSOR DESIGN PROBLEMS N63-20071 21-02 TURBORACHINES - INPELLER BLADING OF ANIAL ACCOMPRESSOR STAGE CALCULATED BY METHODS DERIVED FROM CASCADE THEORY MOST NOS-20072 21-02 DEFLECTED-JET WIOL AIRCRAFT CHARACTERISTICS - BELL X-14 AIRCRAFT 2304 HOMA VSACHO N63-14695 10-04 SEA-LEVEL STATIC TESTING OF TURBOJET ENGINE TURBONACHINES - FLOW CALCULATION THROUGH NULTISTAGE TURBINES WITH EMPHASIS ON BLADE DESIGN NO.-20873 21-02 AFTERBURNER A SHIME SHEET SHEET ON N63-14760 13-11-27 EFFECT OF NOISE SUPPRESSION DEVICES ON TURBOJET ENGINE TESTING AND TURBOJET AIRCRAFT RUN-UP GROUND OPERATION - TEST FACILITY CALIBRATION AMAL-TDR-62-134 TURBOHACHINES - MEASUREMENTS OF FLOW CONDITIONS IN TWO-STAGE AXIAL FLOW COMPRESSOR NA3-20874 21-02

TURBONACHINES - PERFORMANCE OF TURBOJET ENGINES DURING STARTING BY WINDHILLING OF MAJANCAS OF

N63-20875 21-02

TURBOPROP AIRCRAFT SA CANADAIR CL-44 TURBOPROP TRANSP			CLASSIFICATION SCHEME FOR CYCLON CLOUD VISIBILITY, TURBULENCE AND	ICIMG	
G-FORCES FROM GUST ACCELERATION TURBOPROP AIRCRAFT NASA-TN-D-1925	OF TWIN ENGI		AFCRL-63-22 EFFECT OF BODY GEOMETRY ON TURBU	N63-13818	A-(320)
POWERPLANT AUTOPRECESSION ON TUR			WAKE OF REENTRY BSD-TDR-62-354	N63-14449	10-11
TRANSPORT AIRCRAFT			FLOW PATTERN WITHIN CONSTANT PRE	SIGNATIAN AND	
MICH MICHE AREAS AS AREZONYASS -3			TURBULENT JET MIXING REGION	DRIV. INDREM	WI LEE
FLIGHT CHARACTERISTICS OF AN-24 SPEED, COMMERCIAL AIRCRAFT FTD-TT-63-791/162	TURBOPROP, 1	24-14	NASA-TN-0-1894 LAMINAR AND TURBULENT WAKE CALCU	N63-15323	12-11
	N03-23201	MOL	TEST SPHERE	PILIPESHANAS	A PORT
CASCADE INVESTIGATION OF COOLING OF AIR-COOLED TURBINE BLADE FOR			GASL-TM-76-A AFTERBURNER COMBUSTION EFFICIENC	N63-15617 Y - EFFECT (12-11
ENGINE NACA-RM-E57019	31/10/230		FLAMEHOLDER VARIATION AND TURBUL NACA-RM-E57CO1		
EFFECT OF HIGH ALTITUDE ON PERFO	RMANCE & OPT	ERAT ING	SPACE-TIME CORRELATION NEASUREME		
CHARACTERISTICS OF TURBOJET ENGIN	NES WITH HY	DROGEN	VELOCITY IN MIXING REGION OF A J		14-1
NACA-RH-E56E14	N63-12907	07-27	FLOW PATTERN FOR DUCTED FLOW TUR	BULENT JETS	AND
HEAT TRANSFER OF AIR-COOLED TURB TURBOPROP ENGINE			FURNACES	N63-18503	17-1
NASA-TH-X-85	N63-12972	07-13	TURBULENT MASS TRANSFER DIFFUSIO STREAMS - FLUID MECHANICS	N IN LIQUID	750
LUBRICATING OIL FOR TURBOSHAFT EL		COPTER	IS-419	N63-18849	18-1
TURBOPUNP AND	N63-17847	16-17	THEORY CALCULATION FOR GROWTH OF TURBULENT WAKE BEHIND BLUNT AND RM-3270-PR		IES 18-1
TANK-MOUNTED BOOSTER PUMPS FOR PI POSITIVE SUCTION HEAD FOR TURBO- RADIATION ENVIRONMENT	PUMPS OPERAT	TING IN	MIXING PROBLEMS WITH CHEMICAL RE TURBULENT JETS OF AJR AND HYDROG SUPERSONIC SPEED	ACTIONS -	
URBOROCKET ENGINE ANALYSIS OF AIR-TURBOROCKET ENGIN	NE DEDECRMAN	uce.	ARL-63-109	N63-19124	18-
INCLUDING EFFECTS OF COMPONENT COMPO	HANGES N63-12524	06-27	QUASI-ONE-DIMENSIONAL MODEL FOR REACTING TURBULENT WAKES OF HYPE BSD-TDR-63-153		TS 19-
TURBULENCE SA ATMOSPHERIC TURBULENCE SA CLEAR AIR TURBULENCE SA MAGNETOHYDRODYNAMIC TURBULENCE CF BOUNDARY LAYER CONTROL			DISTURBANCES CAUSED BY TURBULENC OCCURRENCES - STABILITY AND COMT		1770
CF BOUNDARY LAYER TRANSITION CF DRAG CF FLUID FLOW			TURBULENCE AND TURBULENT MIXING AND CUMULONIMBUS CLOUDS JPRS-20956	IN THICK CUI	
CF FLUTTER WOLA THE MALE AND HOLD			SERVICE BUT HE SHOULD AS SHOULD AS SHOULD BE		
BEHAVIOR OF TURBULENCE CAUSED BY CONDENSATION IN A SUPERSONIC WING	WATER VAPOR	R	RICHARDSON-CRITERION FOR PREDICT TURBULENCE USING FLIGHT MEASUREM FFM-58		
WGL PAPER-68 THE INFLUENCE OF TURBULENT SCATTI PROPAGATION OF A POLYDISPERSED AG JPRS-16492			MONEQUILIBRIUM TURBULENT WAKE OF & APPROXIMATE INTEGRAL SOLUTIONS OF SPECIES AND THERMAL PROPERTIE 8SD-TOR-63-138	FOR DISTRIE	
MAGNETOHYDRODYNAMIC TURBULENCE IN DCAS-TDR-62-167			TURBULENCE AREAS FROM WIND TUNNE MODEL ROCK OF GIBRALTAR MO-744	L AIR FLOW /	AROUN 22-
TONDOLLAS MERCITAG GASDINANICS	N63-10786	02-11	KINEMATICAL THEORY FOR MAGNETIC	FIELDS PRODE	
MOLECULAR AND TURBULENT DIFFUSION ATMOSPHERE	N IN THE UPP N63-11243	PER 03-12	BY INTERACTION OF TURBULENT EDDI LARGE-SCALE WEAK MAGNETIC FIELD	IN PHOTOSPHI N63-23598	
SONIC ANEMOMETER FOR STUDY OF TUR LOADING ON MISSILES AFCRL-62-1064	RBULENT WIND		TURBULENCE EFFECT CASCADE FLOW IN CASCADE WIND TUN COEFFICIENT, TURBULENCE EFFECT O	NEL - AERODY	
STRUCTURE AND PROPAGATION OF TURE	BULENT BUNSE	EN	EFFICIENT, SECONDARY FLOW LOSS OFL-202	N63-15228	11-
FLAME ROLE OF TURBULENCE IN STAR FORMAT ELLIPTICAL GALAXIES	N63-11972 TION IN N63-12747	05-26	WIND TURBULENCE EFFECT CONCERNIN BALLISTICS - WIND SHEAR, DIRECTI PROFILES	G ATMOSPHER	r, AN
WAVE MOTION, ENERGY DISSIPATION, TURBULENCE LIMITATION IN FLUID JE			RR-TR-63-7 TURBULENCE EFFECT OF FLAME OF THE BURNER - FLOW FIELD & FLAME FROM	O-DIMENSION	NL.
MATHEMATICAL CORRELATION OF TURBL AND BROWNIAN MOTION OF PARTICLES	ULENT DIFFUS	SEON	TURBULENT FORCED CONVECTION HEAT	N63-18504 TRANSFER	17-
AFCRL-62-1107	M63-13689	08-20	COMPUTATIONS FOR AIR, HELIUM, AR	GON, HYDROG! N63-19307	

SUBJECT INDEX TABBULENT BOUNDARY LAYER
OF FLUID FLOW
TURBULENT BOUNDARY-LAYER CORRECTION AT HIGH
REYNOLDS NUMBERS, HEAT TRANSFER RATES TEM-8151-006 N63-10936 02-11 HEAT TRANSFER AND PRESSURE ON A PLAT PLATE AND ON PROTUBERANCES IN A SUPERSONIC TURBULENT BOUNDARY LAYER AT MACH 2.65, 3.51, AND 4.44 HASA-TN-D-1372 N63-10991 02-13 TURBULENT BOUNDARY LAYERS ON HIGHLY COOLED SURFACES AT HIGH MACH NUMBERS N63-11075 03-11 VELOCITY-DEFECT LAW OF TURBULENT BOUNDARY LAYER THREE-DIMENSIONAL TURBULENT BOUNDARY LAYER IN HYPERSONIC FLOW IMPACT PROBE METHOD TO MEASURE LOCAL SKIN FRICTION IN TURBULENT BOUNDARY LAYER OVER A RANGE OF MACH NUMBERS & PRESSURE GRADIENTS TURBULENT BOUNDARY LAYER FLOW OVER FLAT PLATE
VIBRATING WITH TRANSVERSE STANDING WAVES
N63-12196 09 THREE-DIMENSIONAL STRUCTURE OF PLANETARY
BOUNDARY LAYER - MICROMETEOROLOGY, TURBULENT
N63-12580 HEAT TRANSFER AND PRESSURE DISTRIBUTION IN SHOCK WAVE TURBULENT BOUNDARY LAYER INTERACTION REGIONS SM-42567 N63-13002 07-03 KORST TURBULENT FREE JET & CHAPMAN LAMINAR FREE-JET MIXING THEORIES AS APPLIED TO FLUID AMPLIFIERS N63-13396 MECHANICS OF COMPRESSIBLE TURBULENT BOUNDARY LAVERS N63-14267

TION.

09-21

10-11

SIME

12-11

12-11

13-26

REAL

4-11

17-11

8-11

8-11

8-07

9-11

AL

US

1-21

1-11

6

-11

IND

-21

-24

23

-11

-21

-26

-13

OL.

1e

10-11 THEORIES OF COMPRESSIBLE TURBULENT-BOUNDARY-LAYER SKIN FRICTION WITH ZERO PRESSURE GRADIENT AND EXPERIMENTAL RESULTS NASA-TN-D-1795 NA3-14278 10-11

CALCULATION OF TURBULENT BOUNDARY LAYER GROWTH AND HEAT TRANSFER IN AXISYMMETRIC NOZZLES - DIGITAL COMPUTER PROGRAM JP1-TR-32-387 N63-14465 10-11

ML-1 ARMY GAS COOLED REACTOR - HEAT TRANSFER AND FLUID FLOW WITH BOUNDARY LAYER TURBULENCE N63-14573

CALCULATION OF TURBULENT BOUNDARY LAYER AND TRANSITION LAYER OF A FLAT PLATE - DETERMINATION
OF A CONSTANT FOR FRICTION N63-14822 11-11-02

TURBULENT BOUNDARY LAYER COMBUSTION IN HYBRID ROCKET ENGINE WSS/CI PAPER-62-24

HEAT TRANSFER & PRESSURE DISTRIBUTION ON HYPER-VELOCITY BALLISTIC VEHICLE - DATA RELATED TO TURBULENT BOUNDARY LAYER - FLUID MECHANICS SH-41379-2 N63-15603

TRANSPIRATION COOLING OF TURBULENT BOUNDARY LAYER IN AXISYMMETRIC NOZZLE BY SECONDARY INJECTION OF HELIUM AND NITROGEN

THREE-DIMENSIONAL TURBULENT BOUNDARY LAYER IN HYPERSONIC FLOW - HEAT TRANSFER STUDY ARL-63-26 N63-15709 12-11

FLUCTUATIONS IN TURBULENT BOUNDARY LAYER OF FAIREY DELTA 2 AIRCRAFT - MEASUREMENT OF SURFACE PRESSURE AND STRUCTURAL STRAIN RAC-CP-638 N63-16169 13-04

TURBULENT BOUNDARY LAYER IN COMPRESSIBLE FLUTO

SHOCK TUBE TEST TIME LIMITATION DUE TO TURBULENT WALL BOUNDARY LAYER TDR-169/3230-12/TR-3 N63-16474

VELOCITY DISTRIBUTION IN TURBULENT BOUNDARY

THEORETICAL SOLUTIONS OF TWO-DIMENSIONAL TURBULENT BOUNDARY LAYER BETWEEN TWO REACTING GAS STREAMS RAC-882A N63-20008 19-11

HIGH TEMPERATURE CONVECTIVE HEAT TRANSFER ACROSS TURBULENT BOUNDARY LAYERS IN SUPERSONIC AND HYPERSONIC GAS FLOWS IN SHOCK TUBES

PRESSURE FLUCTUATIONS AT RIGID WALL UNDER TURBULENT BOUNDARY LAYER AT SUPERSONIC & SUBSONIC PEEDS 1 3MAJ KENTO- WATER N63-22361 23-11 COA-N-140

COMPARISON OF METHODS FOR EVALUATING SKIN FRICTION OF TURBULENT BOUNDARY LAYER WITH TRANSPIRATION - FLUID DYNAMICS TRECOM-TR-63-35

THREE-DIMENSIONAL TURBULENT BOUNDARY LAYERS CALCULATION OF VELOCITY PROFILES AND SHEAR STRESS
COMPONENTS
ARC-CP-635
N63-22854 23-1 N63-22854 23-11

WIND TUNNEL INVESTIGATION OF TURBULENT BOUNDARY LAYER NOISE AS RELATED TO DESIGN CRITERIA FOR HIGH-PERFORMANCE VEHICLES NASA-CR-51730

TURBULENT FLOW
MEASUREMENT OF TURBULENT SKIN-FRICTION WITH THE
PRESTON TUBE
MGL PAPER-71 M63-10064 01

PLAIN CYLINDRICAL JOURNAL BEARINGS IN A TURBULENT MT 1-62TR22 18807 1881 1880 1884 1884 1884 1883-10125 01-17

HEAT TRANSFER COEFFICIENTS FOR A PLATE IN TURBULENT FLOM FTD-TT-62-1413/162 N63-10346 01-13

LAMINAR-TURBULENT TRANSITION IN FLUID FLOW K-1531 N63-10357 01-11

PRESSURE FLUCTUATIONS IN A WEAK TURBULENT FIELD WITH A UNIFORM TRANSVERSE VELOCITY GRADIENT N63-11461 03-

FLAME FRONT AND COMBUSTION IN TURBULENT FLOW

JET FLAME COMBUSTION, PROPAGATION VELOCITY, COMBUSTION STABILITY, TURBULENT FLOW N63-12275 05-26

HEAT TRANSFER MEASUREMENTS FROM FLIGHT TEST OF TWO WING-BODY COMBINATIONS AT MACH NUMBERS TO 4-1 NASA-MEMO-10-25-58L NAS-12490 06-0

STUDIES OF VELOCITY PROFILE, SKIN FRICTION & HEAT-TRANSFER CHARACTERISTICS OF TRANSPIRATION-COOLED SURFACE N63-12692 06-11

PRESSURE AND TURBULENT HEAT TRANSFER ASSOCIATED WITH SINUSOIDAL PROTUBERANCES ON FLAT PLATE NASA-TN-D-1626 N63-13950 09-

BOUNDARY LAYER HOISE - THIN STEEL PLATES IN STREAM FURNILENCE N63-14834 11-33

FLAME PROPAGATION IN LAMINAR AND TURBULENT FLOWS -FLAME PROPAGATION VELOCITY - COMBUSTION AMALYSIS DVL-226 N63-15072 11-26

MIXING OF LAMINAR AND TURBULENT AXIALLY SYMMETRIC COMPRESSIBLE FLOW PIBAL-756 NAS-15963 13-11

HEAT TRANSFER AND TURBULENT AIR FLOM BETHEEN ROTATING CYLINDER AND STATIONARY, CONCENTRIC OUTER

05-11

06-21

07-02

08-11

	CYLINDER AT HIGH TEMPERATURES AFOSR-3207 N	63-16550	14-13	TWENTY-FOUR HOUR SATELLITE CF SYNCHRONOUS SATELLITE		117697
	SUBSONIC, TURBULENT MIXING OF TWO OUNDER CONSTANT PRESSURE - DESIGN OF	F CONSTANT	F	DYNAMIC PROGRAMMING TO OPTIMIZE ORE A 24-HOUR COMMUNICATION SATELLITE ARS PAPER-2695-62 No.		3 600
LI	PRESSURE MIXING TUBES - MOMENTUM TO GD/C-62-354A	63-16682		STABILITY OF A TWENTY-FOUR HOUR SAT		
	TRANSITION FROM LAMINAR TO TURBULE HYPERSONIC SPEED - BIBLIOGRAPHY	NT FLOW AT	ax rest	TWILIGHT	DH TANKS	ALLIN
	SB-62-55 NO TURBULENT FLOW LIQUID METAL LUBRIC JOURNAL BEARINGS NO		15-11	BAND-HEAD WAVELENGTHS OF SOME RADIO IONS FOR INTERRETING ULTRAVIOLET SP DAYGLOW, THILIGHT & AURORAE OF EART NE	PECTRA OF	
1.0	TURBULENT SPOTS AND WALL ROUGHNESS			TWIN ENGINE		124
	SHOCK TUBE BOUNDARY LAYER TRANSITION	ON		SPIN OF SCALE MODEL UNSWEPT WING, TO OBSERVATION AIRCRAFT NASA-TN-D-1516		-
	STABILITY OF PROPANE-OXYGEN FLAMES PRESSURES IN TURBULENT FLOW	AT LOW 63-18502	17-26	G-FORCES FROM GUST ACCELERATION OF		
	FIRE AND TURBULENT FLOW FLAME PROPE GAS JETS - MODEL STUDY	AGATION US		TURBOPROP AIRCRAFT NASA-TN-D-1925	3-18235	17-0
	RAMJET BAFFLE TYPE COMBUSTION CHAM	E-8-10 (-100.)	187	TWINNING RELATIONSHIP OF TWINNING TO BRITTLE	FRACTURE	NG IN
	FLOW STUDIES NO	63-18585	17-27	REFRACTORY METALS, SINGLE AND POLYC MOLYBDENUM AND NIOBIUM	RYSTALLIN	IE
	TURBULENT FRICTION ON A FLAT PLATE	11554-1164		ASD-TDR-63-360 N6		
	RM-2968-PR NOT TURBULENT FLOW TRANSITIONS NEAR SOL		18-11 EXIBLE	DEFORMATION THINNING IN PLASTIC DEF FRACTURE, AND RECRYSTALLIZATION OF NO		her C
	BOUNDARIES IITRI-1205-4 No	63-19087	18-11	DISLOCATION MOVEMENT DURING ELASTIC	TWINNING	OF
	TRANSFER OF MOMENTUM, HEAT, AND MAS	SS IN TURE	BULENT	JPRS-20708 N6	3-19913	19-2
	PIPE FLOW PAST A HYDRODYNAMICALLY S EUR-293.E		18-11	TWIST CF TORQUE	11 17 12 1 1 1 1 1 2 1	
	TURBULENT FLOW VELOCITY PROFILE OF FROM AN AXISYMMETRIC JET NO			EFFECTS OF CAMBER AND TWIST ON AERO CHARACTERISTICS OF PARAWINGS	00.45	
	STRUCTURE OF FREE AND CONFINED TURE				3-12287	05-0
	WIRE WRAPPING EFFECT ON PRESSURE DE	63-19210 ROP FOR AX	18-11	EFFECTS OF TWIST, CAMBER AND THICKN AERODYNAMIC FEATURES OF 75-DEG SWEP NASA-TM-X-138	T ARROW W	
	TURBULENT FLOW THROUGH ROD BUNDLE			FINITE TWISTING AND EXPANSION OF HO	THE PERIOR IN	XZ
	SUPERSONIC COMBUSTION - SUPERSONIC			PLASTIC PLATE UNDER PLANE STRESS	3-14464	10-3
	MIXING OF CARBON DIDXIDE AND AIR ST	63-19363	18-11	DEFLECTIONS AND STRESSES IN ORTHOGO PLATES SUBJECTED TO PURE TWIST	MALLY STE	FFENE
	FLAME STRENGTH OF PROPANE-OXYGEN FL PRESSURES IN TURBULENT FLOW NO	LAMES AT L	.OW 18-26		3-22797	23-1
	TURBULENT HEAT AND MOMENTUM TRANSFE VELOCITY AND TEMPERATURE GRADIENTS	IN A FLOW	FIELD	TWISTED WING OFF-DESIGN AERODYNAMIC CHARACTERIST ARROW WINGS WITH TWIST AND CAMBER A	TICS OF SW	
	MUSTICH, PROPAGATION WESTERN, W. TABLE TABLE TABLE			VELOCITIES NASA-TN-D-1630	3-13516	08-0
	LAMINAR, TRANSITIONAL, AND TURBULER AFTER A SHARP DISCONTINUITY			RAPID ESTIMATION NETHOD FOR SPANNIS		
46	LOCAL HEAT TRANSFER COEFFICIENTS 6		20-11	DISTRIBUTION OVER UNTWISTED WINGS 1 AIR FLOW DUE TO INCIDENCE CHANGE TO MEMO-6208		
	FACTORS FOR TURBULENT FLOW OF AIR,		23-13	TWO-BODY ORBIT	THAT 3.3V	
	TURBULENT SHEAR LAYER REATTACHMENT			A SET OF TWO-BODY ORBITAL PARAMETER CIRCULAR ORBITS AND RELATED EQUATION		RLY
12	EMPHASIS ON BASE PRESSURE AE-175, ISSUE 2			ARS PAPER-2625-62	3-11258	03-2
	SOUND RADIATED FROM TURBULENT FLOW	HIROTON PERMIT		TWO-BODY PROBLEM OF CLASSICAL ELECT	RODYNAMIC	s -
	AND RIGID BOUNDARIES BBN-1054 N6			ONE DIMENSIONAL CASE	3-14456	10-2
EE-	EFFECT OF FREE STREAM TURBULENCE &		ON	TWO-BODY T-MATRIX PROBLEM FOR FREE-		TEMS
	RADIATIVE SOUND FIELD OF A FREE JET SPECTRA AND SOUND PRODUCTION PROCES	S		APPLIED TO NUCLEAR CHARGE EXCHANGE LA-2805		13-
45		3-23009	24-11	PERTURBATION THEORY OF TWO-FIXED-CE		
	EFFECT OF CENTRIPETAL ACCELERATION TURBULENT MIXING FLOW AROD-3227-1 N6	FIELD ON	24-11	RAC-1645		
		AFT-161	413	TWO-DINENS IONAL BODY	MEN-43-3	1434
	LAMINAR AND TURBULENT MIXING OF FIE	3-23490	24-24	PLANE POISEUILLE FLOW OF RAREFIED G DIMENSIONAL CHANNELS AERONAUTICAL ENG. REPT619 N6	3-12098	HLEKELIN

N63-12098 05-11

03-22

16-32

VENUS 07-05

05-04 E

17-04 G IN

19-18 DF 19-25

15-02 1G 17-03

/ 0-33 ENEO 3-33

r : :-03

NL 1-03

-20 \$ -23

-29

-11

SUPERSONIC PERFORMANCE OF VARIABLE TWO-DIMENSIONAL INLETS DESIGNED FOR ENGINE-INLET MATCHING NACA-RM-E56H23 06-02	TURBULENCE EFFECT OF FLAME OF THO-DIMENSIONAL BURNER - FLOW FIELD & FLAME FRONT PROPAGATION N63-18504 17-26
SLENDER, TWO-DIMENSIONAL BODIES OF MINIMUM DRAG AT HYPERSONIC SPEEDS N63-15753 12-02	TWO-DIMENSIONAL MAGNETOGASDYNAMIC FLOW WITH RESISTANCE, VISCOSITY AND HEAT CONDUCTION N63-19468 19-11
CENTER-LINE PRESSURE DISTRIBUTION ON TWO- DIMENSIONAL BODIES NASA-TN-D-1793 N63-17301 15-02	THEORETICAL SOLUTIONS OF TWO-DIMENSIONAL TURBULENT BOUNDARY LAYER BETWEEN TWO REACTING GAS STREAMS RAC-882A N63-20008 19-11
THO-DIMENSIONAL JET FLAPS - THRUST - ANGLE OF ATTACK UTIA-90 N63-17600 16-03	THO-DIMENSIONAL CALCULATIONS PERFORMED ON CYLINDRICAL, COAXIAL CAVITY REACTOR N63-22314 23-27
GRAVITATIONAL EFFECTS OF TWO-DIMENSIONAL AND THREE-DIMENSIONAL BODIES BOUNDED BY PLANES OF SECOND ORDER - NOMOGRAMS N63-18753 17-12	TWO-ELECTRON SYSTEM COMPARISON OF HARTREE-FOCK ORBITAL WITH FIRST NATURAL SPIN ORBITAL FOR TWO-ELECTRON SYSTEM
STRESS DISTRIBUTION NEAR CRACK IN TWO-DIMENSIONAL ELASTIC SHEET N63-19149 18-33	PARTIAL SEPARATION OF VARIABLES APPLIED TO THO P-ELECTRON CALCULATIONS - SPIN ORBIT, ANGULAR
SLENDER, TWO-DIMENSIONAL POWER BODIES HAVING MINIMUM ZERO-LIFT DRAG IN HYPERSONIC FLOW DI-204-24 20-02	MOMENTUM, ENERGY TRANSFER, ATOMIC EXCITATION NASA-TT-F-152 N63-15238 11-23
EFFECT OF FRICTION ON OPTIMUM TWO-DIMENSIONAL WINGS IN LINEARIZED SUPERSONIC FLOW	CALCULATION OF ATOMIC ENERGY LEVELS OF SOME THO- ELECTRON ATOMS RR-TR-63-10 N63-22608 23-23
FLIGHT SCIENCES LAB. TR-78 N63-20969 21-03	THO-CENTER THO-ELECTRON HYBRID INTEGRALS ARISING
SECOND-ORDER THEORY OF OPTIMUM TWO-DIMENSIONAL WINGS IN SUPERSONIC FLOW INCLUDING FRICTION	FROM ATOMIC ORBITALS NASA-TN-D-146-III/A/ N63-22705 23-23
EFFECTS FLIGHT SCIENCES LAB. TR-79 N63-22325 23-03	TWO-CENTER THO-ELECTRON HYBRID INTEGRALS ARISING
BOUNDARY LAYER THICKNESS ON CURVED WALLS OF 20-IN	FROM ATOMIC ORBITALS NASA-TN-D-146-111/B/ N63-22706 23-23
SUPERSONIC WIND TUNNEL TWO-DIMENSIONAL NOZZLE NASA-CR-52252 N63-23654 24-10	TWO-CENTER TWO-ELECTRON HYBRID INTEGRALS ARISING
O-DIMENSIONAL FLOW	FROM ATOMIC ORBITALS NASA-TN-D-146-III/C/ M63-22707 23-23
F FLOW FIELD WIND TUNNEL INVESTIGATION OF A TWO-DIMENSIONAL AIRFOIL BLOWING OVER A FLAP & OVER A CONTROL	TWO-PHASE FLOW CRITICAL TWO-PHASE, ONE-COMPONENT FLOW ANL-6633 N63-11025 03-11
SURFACE MP-215 N63-10067 01-03	CAMERA STUDY OF TWO-PHASE FLOW IN VERTICAL TUBE
LINEAR THEORY OF TWO-DIMENSIONAL FLOWS ABOUT THIN BODIES N63-11175 03-11	WITH HEAT ADDITION NASA-TN-D-1564 M63-12245 M63-12245
EQUATIONS FOR TWO-DIMENSIONAL AND AXISYMMETRICAL FLOW OF GAS-PARTICLE MIXTURES IN ROCKET MOZZLES AFBSD-TDR-62-144 N63-11959 05-11	LOCAL PARAMETERS IN COCURRENT MERCURY-MITADGEN TWO-PHASE FLOW ANL-6625 N63-14562 10-11
HYPERSONIC FLOW ANALYSIS - REAL GAS OBLIQUE SHOCK FUNCTIONS FOR AIR IN CHEMICAL EQUILIBRIUM - THO AND THREE DIMENSIONAL FLOW	CORRELATION OF LIQUID FRACTION IN TWO-PHASE FLOW APPLIED TO LIQUID METALS NAA-SR-8171 N63-14959 11-11
AND THREE DIMENSIONAL FLOW DN-63-1 N63-13813 09-11	NONSTEADY AND NONEQUILIBRIUM TWO-PHASE FLOW
CALCULATION OF TWO-DIMENSIONAL INCOMPRESSIBLE POTENTIAL FLOW AROUND SEVERAL PROFILES IN SAME	PROBLEM - GAS CARRIER AND SMALL PARTICLES - SQUID PROJECT - M63-15350 12-01
FLOW FIELD WHICH EXERT MUTUAL INTERFERENCE N63-15455 12-11	LONGITUDINAL DISPERSION IN EXTRACTION COLUMNS - LIQUID AND TWO PHASE FLOW IN AXIAL DIRECTION
THEORY OF HYDRODYNAMIC STABILITY OF TWO- DIMENSIONAL AND AXISYMMETRIC PARALLEL STREAMS	UCRL-10696 1241 1863-17488 16-11
DVL-190 N63-16145 13-11 NONVISCOUS, STEADY CAVITATING TWO-DIMENSIONAL FLOW	VISUAL STUDY OF SWIRLING AND NONSWIRLING THO-PHASE AIR AND WATER FLOW NASA-TM-X-725 N63-20752 21-11
THROUGH CASCADE OF FLAT PLATE HYDROFOILS E-79-4 N63-16350 14-03	THO-PHASE FLOW PROBLEMS - DYNAMICS OF BOILING
EXACT SOLUTIONS FOR THO-DIMENSIONAL HYDROMAGNETIC	WATER REACTOR - FUEL AND PLUTONIUM RECYCLING EUR-352-E N63-20921 21-11
STEADY STATE FLOW D1-82-0170 N63-16467 14-24 MEASUREMENT OF PITCHING-MOMENT DERIVATIVES FOR	CHOKING TWO-PHASE FLOW OF HYDROGEN - THREE MODELS OF SATURATED, TWO PHASE FLUID FLOW M63-22316 23-11
BLUNT-NOSED AIRFOILS DSCILLATING IN TWO-DIMENSIDNAL SUPERSONIC FLOW ARC-REM-3315 N63-17904 16-03	REACTING TWO-PHASE GAS PARTICLE FLOW IN BOUNDARY LAYER OF ABLATING HYPERSONIC BODY
THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON OF THE PE	SSD-3418R THE THE REST IN M63-22526 A 23-11
OIGITAL COMPUTER PROGRAM FOR TWO-DIMENSIONAL BUILING FLOW WITH FLUID EXPANSION WAPD-TM-302 N63-18263 17-11	THO-PHASE, TWO-COMPONENT FLOW IN HORIZONTAL CONVERGING-DIVERGING NOZZLES
EFFECT OF MAGNETIC FIELD ON THO-DIMENSIONAL FLOWS	ANL-6754 23-02
OF INCOMPRESSIBLE, ELECTRICALLY CONDUCTING FLUID NASA-CR-50653 N63-18392 17-11	THO-COMPONENT TWO-PHASE FLOW PARAMETERS FOR LOW CIRCULATION RATE
ACT 0 00 1-21/24 12-12	ANL-6755

C

2116

ULTR ULTR 13-0 ULT

14-33

THO PHASE SYSTEM DETERMINATION OF DIFFUSIVITY AND SOLUBILITY IN TWO PHASE SYSTEMS - LITHIUM NITRATE	AND WELL-DEFINED SURFACES ARL-63-80 N63-18273 17-41
MATT-148 N63-12102 05-07 OPERATIONAL FEASIBILITY OF HYPERSONIC BLOWDOWN	PULLING ACCELERATION SYSTEM - BAKEABLE VALVE FOR ULTRAHIGH VACUUM ARF-A218-12 N63-18882 18-91
WIND TUNNELS USING TWO-PHASE GAS SUPPLY	County Control (1991) The English of The Total Control (1991) Cont
USCEC-65-57 N63-23103 24-10 TWO-SAMPLE PROBLEM	BEARING AND GEAR LUBRICATION IN ULTRAHIGH VACUUM ENVIRONMENT USING PLASTICS, POWDERS, AND COMPOSITES AS DRY LUBRICANTS
ASYMPTOTIC METHOD OF STATISTICAL ANALYSIS WITH TWO-SAMPLE PROBLEM N63-14795 11-20	AEDC-TDR-63-166 N63-19014 18-17
THO SAMPLE SEQUENTIAL RANK TEST STATISTICAL METHOD FOR POPULATION TESTING N63-23085 24-20	ULTRAHIGH VACUUM AND TEMPERATURE EFFECTS ON VIABILITY OF SPORE AND SOIL ORGANISMS N63-19474 19-16
THE STATE STATES AND THE STATES AND	VIABILITY OF SPORES SUBJECTED TO ULTRAHIGH VACUUM,
UH-1A HELICOPTER SECOND HARMONIC FEATHERING DEVICE ON UH-1A	GAMMA RADIATION, AND ELEVATED TEMPERATURES NASA-CR-51102 N63-21109 21-16
HELICOPTER TCREC-TR-62-109 N63-19443 19-15	ULTRAHIGH VACUUM EVAPORATOR FOR DEPOSITING ACTIVE SILICON AND/OR GERMANIUM FILMS - OPTICAL AND HALL
UH-18 HELTCOPTER	EFFECT STUDIES Q445-2 N63-22631 23-19
ELECTRICAL AND FIRE CONTROL SYSTEMS OF XM-3 ROCKET WEAPON SYSTEM FOR UH-18 HELICOPTER RG-TR-62-6 N63-13411 08-04	ULTRAHIGH VACUUM DEPOSITION OF SILICON AND/OR GERMANIUM SENICONDUCTOR FILMS - OPTICAL STUDIES, ELECTRON DIFFRACTION, AND HALL EFFECT
HIGH-PERFORMANCE RESEARCH WITH HELICOPTER MODIFIED WITH UM-18 DYNAMIC COMPONENTS	Q445-3 N63-22632 23-01
TRECOM-TR-63-42 N63-23623 24-04	ULTRASONIC INSPECTION EQUIPMENT AND TECHNIQUES FOR
DEMONSTRATION PLANNING AND PROGRESS REPORT - HU-IE	DETERMINING AIRCRAFT CORROSION N63-10084 01-17
HELICOPTER N63-13299 07-04	ULTRASONIC INSPECTION OF TUNGSTEN ROUND ROBIN
S LOS ALAMOS TURRENT REACTOR	BTLLETS NRL-TM-214 N63-10426 01-17
ULTRAHIGH FREQUENCY	COOLING TECHNIQUES, THERMOELECTRIC, ULTRASONICS,
DESIGN, CONSTRUCTION, AND TEST OF HIGH POWER ULTRAHIGH FREQUENCY CRESTATRON - FORWARD WAVE AMPLIFIER	CRYOGENICS RAS-TM-62-6 N63-10946 02-13
RADC-TDR-62-446 N63-14604 10-15	PULSED ULTRASONIC THERMOANEMOMETER DESIGNED TO ELIMINATE ERRORS DUE TO ELEMENT HEATING AND STREM
ULTRAHIGH FREQUENCY PHASE SHIFTER - FERROELECTRIC AFCRL-62-319 N63-15688 12-09	EFFECTS FTD-TT-62-118/18264 N63-12817 06-15
ULTRAHIGH FREQUENCY POWER AMPLIFIER TUBES - PEAK	METAL MACHINING PROCESSES - ULTRASOUND, ELECTRON
CATHODE EMISSION AND MAXIMUM RADIO FREQUENCY OUTPUT, 200 MICROSECONDS PULSE DURATION RADC-RAL-TM-63-8 N63-18376 17-09	BEAM, AND HYDROEROSION FTD-TT-62-1357/1 N63-12821 06-17
ULTRAHIGH FREQUENCY CONTINUOUS WAVE REFLECTION MEASURING SYSTEM N63-21264 21-08	GEOMETRY OF HIDDEN DEFECTS DETERMINED BY ULTRASONIC PULSE ANALYSIS AND SPECTROSCOPY WAL-TR-830.5/5 N63-13135 07-23
DESIGN OBJECTIVES FOR TELEMETRY UHF TRANSMISSION	ULTRASONIC MEASUREMENTS OF DENSITY AND ELASTIC
LINKS NAVWEPS-8146 N63-22132 22-08	CONSTANTS AT HIGH PRESSURE ASHE PAPER-62-MA-289 N63-13431 08-33
ULTRAHIGH TEMPERATURE REACTOR EXPERIMENT /UMTREX/ S LOS ALAMOS TURRENT REACTOR	CALCITE-ARAGONIYE TRANSITION IN LIMESTONE BY ULTRASONIC PULSE INTERFEROMETRY - POLYMORPHIC PHASES N63-13524 08-12
ULTRAHIGH VACUUM ULTRAHIGH VACUUM HEAT TREATMENT OF SILICON CARBIDE	ULTRASOUND - EFFECT ON NITROPARAFFIN-CARBONYL
AND EVAPORATION OF CHROMIUM ONTO CLEAN SURFACES AFCRL-62-971 N63-12670 06-25	CONDENSATION FTD-TT-62-1261/164 N63-13580 08-0
EXPERIMENTAL TECHNIQUES FOR PREPARING METAL OR SEMICONDUCTOR SURFACES FOR USE IN ADSORPTION STUDIES N63-12675 06-25	NONDESTRUCTIVE TESTING OF GLASS FIBER AND SYNTHETIC RESIN COMPOSITES BY ULTRASONICS DFL-192 N63-14578 10-19
EXPERIMENTAL DOUBLE-WALLED CHAMBER ULTRAHIGH	ULTRASONIC METHOD FOR CERAMIC COATING EVALUATION,
VACUUM SYSTEM N63-12755 06-06	NONDESTRUCTIVE TESTING WADD-TR-61-91, PT. II N63-14877 11-1
PRESSURE MEASUREMENT IN ULTRA-HIGH VACUUM - EFFECTS OF ADSORPTION, OUTGASSING, STREAMING AND	ULTRASONIC TECHNIQUES FOR ACOUSTICAL AND
RADIATION AEDC-TDR-63-49 N63-13796 09-23	METALLURGICAL FLAW DETECTION ASD-TDR-62-8 N63-15710 12-1
ULTRAHIGH VACUUM EQUIPMENT	ULTRASONIC METHODS FOR STUDYING FATIGUE AND
R-167 N63-16869 14-23	DEFORMATION IN SINGLE CRYSTALS OF ALUMINUM AND SODIUM CHLORIDE — STRUCTURAL DEFECTS ASD—TDR—62-186 13-3
METHODS AND APPLICATIONS OF ULTRAHIGH VACUUM TECHNIQUES IN PHYSICS	AND A CONTRACTOR FOR ME CAPITA AND MAIN AS TO MAIN
EUR-231.D N63-17496 16-23	ULTRASONIC TECHNIQUES FOR NONDESTRUCTIVE MEASUREMENT OF RESIDUAL STRESS
EQUIPMENT AND TECHNIQUES USED TO OBTAIN ULTRAHIGH	WADD-TR-61-42, PT. III N63-16740 14-3

EQUIPMENT AND TECHNIQUES USED TO OBTAIN ULTRAHIGH VACUUM CONDITIONS IN INTERACTION BETWEEN ELECTRONS

17-07 FOR 8-21 HUN 8-17

9-14

1-16 IVE ALL 3-19 5, 9-09 FOR

-17 -13 EAR -15 N

-23

-33

-12

07

19

18

33

33

ULTRASONIC METHOD OF NONDESTRUCTI GERAMIC COATINGS AND CERAMIC-META MADD-TR-61-91, PT. 111	L BONDENGS	PRO.	INDUSTRIAL APPLICATION OF ULTRASONIC ENERGY T CLEANING AND DEGREASING ELECTRONIC COMPONENTS BIBLIOGRAPHY	26-72
ULTRASONIC INSPECTION - ALUMINUM	###40-00F0F0		SID-63-167	A.D.
CHLORIDE SINGLE CRYSTAL DEFORMATI CYCLING - DEFECT FORMATION ASD-TDR-62-186, PT. 11			ULTRASONIC WELDING OF SELECTED REFRACTORY NET AND ALLOYS N63-23470	24-18
ULTRASONIC SPEED CF HYPERSONIC SPEED	FOR TO WE SHOULD THE	CALL OF THE PARTY	LTRAVIOLET RADIATION COMPARISON OF MEASURED AND THEORETICAL VALUES THE SPECTRAL INTENSITY OF ULTRAVIOLET SKY RADIATION	OF
ULTRASONIC TESTING			AFCRL-62-1115 NYA-TOND NET 4 214 N63-11015	03-28
	N63-20701	21-18	DETECTORS FOR VACUUM-ULTRAVIOLET - PHOTO-EMIS SCINTILLATION, TRANSMISSION WINDOWS	50
ULTRASONICS - NEW CONTROL FOR SPI	ACE AND SUB		BN-307 HTL (ALLAN AND FREE ROW SON MESTAR ST	98GU P.
BIDECOLOGICAL SYSTEMS AND SUBSYST		01-16	ABSORPTION AND REFLECTION OF LITHIUM FLUORIDE SELNIUM IN EXTREME VACUUM ULTRAVIOLET AND/OF X-RAY REGIONS	SOFT
PHYTOL IPOPOLYSACCHARIDE - IRRADIA	ATION - ULTI	RASONIC	AROD-2588-3 1274 3674 3644 1544 3 9 N63-13053	07-23
MAYES - INSULIN JPRS-17239	N63-12014	05-16	NEUTRON AND ULTRAVIOLET IRRADIATION ON CATALY ACTIVITY OF MAGNESIUM DXIDE 100 N63-13214	
ULTRASONIC LAMB-WAVE PROPAGATION NONDESTRUCTIVE TESTING	MODELS FOR		CERAMIC PHOTOIONIZATION CHAMBER FOR OBSERVATI	IONS
ни-75499	N63-12725	06-17	IN VACUUM ULTRAVIOLET WAVELENGTH REGION NASA-TN-D-1715 N63-13220	07-15
ULTRASONIC PHENOMENA AND HETHODS	OF MEASURE	HENT -	LON-PRESSURE MERCURY ARC FOR ULTRAVIOLET	
BIBLIOGRAPHY BH-IC-8146	N63-12769	06-23	CALIBRATION N63-13220	07-23
PROPAGATION OF ULTRASONIC WAVES	HAT THE BUILDINGS	190 8	NITROGEN MONOHYDRIDE AS INTERMEDIATE PRODUCT DECOMPOSITION OF CHLOROAMINE BY ULTRAVIOLET	
AR00-2510-10	N63-13055		TIL/T-5368	08-07
ULTRASONIC WELDING OF REFRACTORY	METALS AND N63-16250		SOLAR ULTRAVIOLET INTERACTIONS WITH ROCKET EL GASES IN UPPER ATMOSPHERE - ABSORPTION BY	XHAUST
BERYLLIUM RESEARCH - PURIFICATION DISTILLATION, JOINING BY ULTRASON	N BY VACUUM	FLOW	IONIZATION OR DISSOCIATION N63-14036 ULTRAVIOLET ABSORPTION BY MURRAY METEORITE -	09-12
AND FRACTURE CHARACTERISTICS ASD-TDR-62-509, VDL. II	N63-16999	15-18	- TREATHENT COME 2 1 43 V 43 13 40 30 N63-14636 A	10-07
ULTRASONIC MELDING OF REFRACTORY	METALS AND N63-17581	ALLOYS 16-18	RADIATION MEASUREMENTS FROM ULTRAVIOLET TO INFRARED AND ENERGY CONVERSION USING SEMICON	DUCTOR
EFFECTS OF ULTRASONICS ON PLASTIC	N63-17975	ALS - 16-18	OBJECTIVES OF ORBITING ASTRONOMICAL OBSERVAT	ORY
ACOUSTIC EXCITATION AND ULTRASON CAVITATION - ACOUSTICS	ICALLY INDU		SATELLITES - CONTINUOUS ULTRAVIOLET E INFRAR MEASUREMENT OF CELESTIAL RADIATION, STELLAR No3-15171	
QUARTZ HELICAL DELAY TRANSMISSION PROPAGATION OF HIGH FREQUENCY UL RADC-TDR-62-553	TRASONIC WAT	VES	DEVELOPMENT OF FAST SOLID STATE ULTRAVIOLET PHOTODETECTOR ASD-TDR-62-978 N63-16404	120
SOUND AND ULTRASONIC WAVES IN AT			ULTRAVIOLET PHOTOVOLTAIC CONVERSION IN TITAN	TUM
NASA-TT-F-96		18-23	OXIDE N63-16489	14-25
ULTRASONIC WELDING OF REFRACTORY	METALS AND N63-19291	ALLOYS 19-18	ULTRAVIOLET RADIOMETER FOR AUTOMATIC MEASURE OF SURFACE TEMPERATURES IN 1000 TO 2500-DEG REGION	COS
ULTRASONIC TRANSMISSION IN CYLIN	DRICAL ALUM	INUM	ASD-TR-61-487 A RECALL TRADITY ART IN N63-16053 IN	14-15
AND BRASS BARS EUR-275.F	N63-19298	18-18	DETECTION OF HYDROGEN-AIR FIRES AND EXPLOSIO AEROSPACE VEHICLES BY ULTRAVIOLET AND INFRAR	
BIBLIOGRAPHY OF ULTRASONICS - 19	58	20-23	RADIATION THRONGTO HTERS NO STUDENT ASIGNATURE ASD-TOR-69-113	
BIBLIOGRAPHY OF ULTRASONICS - 19	67		MIDDLE ULTRAVIOLET PHOTOELECTRIC DETECTION EQUIPMENT FOR ROCKETS	
EFFECTS OF ULTRASONICS ON FATIGU	E AND DEFOR	MATION	ELECTRON TEMPERATURE IN IONOSPHERE FROM SOLA ULTRAVIOLET RADIATION GCA-TR-62-11-N M63-17311	
PIEZOELECTRIC COUPLING BETWEEN U AND FREE ELECTRONS IN CADMIUM SU MIT-TR-101	LFIDE	AVES 21-25	PLANETARY AERONOMY - ABSOLUTE INTENSITY OF V ULTRAVIOLET RADIATION MEASURED BY PHOTOIONIZ TECHNIQUE	ATION
ULTRASONIC IMAGING METHODS WITH	ANNOTATED	VA TEL	GCA-TR-63-3-N TUANDATZA YAUJA N69-17316 A	-138
BIBLIOGRAPHY ANL-6680	N63-21406	ST III	ELECTRONIC ENERGY TRANSFER IN ORGANIC LIQUID ULTRAVIOLET AND GAMMA EXCITATION AFCRL-63-610 N63-17615	ULTRAV
FAR FIELD MEASUREMENTS OF AXISYM NONCONVECTING ULTRASONIC SOURCE AXIS	METRIC JET LOCATED ON N63-21920	JET	DIURNAL AND ANNUAL VARIATION OF SPECTRAL INT OF ULTRAVIOLET SKY AND GLOBAL RADIATION	HRY

10-1-10-1 10-1-10-1 10-1-10-1 10-1-10-1 10-1-10-1 10-1-10-1 10-1-10-1 10-1-10-1 10-1-10-1 10-1-10-1 10-1-10-1 10-1-10-1 10-1 10-1

AFCRL-63-654	N63-17622	16-12			
ATMOSPHERIC BACKGROUND RADIATION VISIBLE AND INFRARED	- ULTRAVIOL	ET,	FOR EXTREME ULTRAVIOLET & FLUORESC AFCRL-63-884	ENCE STUDI	
LAS-TR-199-36	N63-18473	17-10	GAMMA RADIATION EFFECTS ON SOLUTIO	NS OF ENZY	MATIC
CHAMBERS, PHOTOTUBES AND PHOTOMU	LTPLIERS		CRYSTALLINE PAPAIN USING ULTRAVIOL SPECTROMETRY	ET AND INF	
ULTRAVIOLET AND PARTICLE RADIATION	ON - EFFECTS		LOW TEMPERATURE ULTRAVIOLET ABSORP	TION SPECT	RA OF
THE CARRY TO STATE AND A STATE OF	N63-18728		NITROGEN	TRASOMIDIES	
WAVELENGTH RANGE FOR STUDY OF RAI ON MATERIALS IN VACUUM ULTRAVIOLI	DIATION EFFE	CTS	ASD-TDR-62-915	63-14923	11-07
			COMPARISON OF OBSERVED RADIATION F STELLAR ATMOSPHERES AND INTERSTELL	AR RADIATI	DDEL
	AR ULTRAVIOL N63-19695	ET 19-05	IN MURRAY METEORITE	FT CHROSYDAL	30
			PLANETARY AERONOMY - ULTRAVIOLET A	BSORPTION	OF
PHOTOELECTRONS FROM SOLAR EXTREM			DIOXIDE AND SULFUR OXIDE		
	TIES OF HARS	AND	FLASH TUBE SHOCK TUBE COMBINATION ULTRAVIOLET AND VACUUM ULTRAVIOLET	SPECTROSCO WAVELENGT	PY IN
	TIAL SOURCES N63-19705	19-12	ULTRAVIOLET SPECTRUM	N STREET	30 . 1
ULTRAVIOLET TARGET RADIOMETER FOI NIKE-JAVELIN ROCKET INSTRUMENT PA		TON IN	AIRGLOW - ATOMIC DXYGEN EXCITATION	MECHANISM 163-13014	07-12
	PRODUCED BY		IONS FOR INTEPRETING ULTRAVIOLET S DAYGLOW, TWILIGHT & AURORAE OF EAR	PECTRA OF	25.W
SCHOOLES ANTON NOTURES A LIVER	COMPANIE NEW YORK	TIGT	FLUORESCENT SCATTERING IN PLANETAR	Y ATHOSPHE	
SOLAR BLIND PHOTOMULTIPLIERS FOR	THE ULTRAVI	OLET	OXYGEN IN LIQUID AND SOLID MEDIA -		
	AIRBORNE HI	SSILES	NBS-7829	MAIN LANGUE EN	09-07
LIGHT RADIATION	N63-20861	21-12	PHOTOCHEMICAL AND THERMAL ADDITION	IYLS - REACTIONS	48 7
GAS PLASHAS				291	12-07
POPULATION INVERSION BETWEEN BOU	ND AND REPUL	SIVE	VACUUM ULTRAVIOLET NASA-TN-D-1759	163-16392	14-09
		24-23	LAMINAR FIBER OPTICS FOR ULTRAVIOL SURFACE COATING	ET SPECTRU	JM -
SUN-EARTH RELATIONSHIPS - SOLAR			MATT-187	4-012-	14-24
IONOSPHERE	N63-23440	24-29	ULTRAVIOLET ABSORPTION SPECTRUM OF	SULFUR DI	OX10E 16-23
SPACECRAFT UNDER ULTRAVIOLET IRRI NASA-CR-52134			ULTRAVIOLET ABSORPTION SPECTRUM OF CHLORIDE/POTASSIUM BROMIDE SINGLE	POTASSIUM CRYSTALS A	IND
INSTRUMENTATION FOR THE CONTINUO SOLAR AND SKY ULTRAVIOLET RADIAT	ION		NASA-CR-403	CAL SUBTOM	16-25
USASROL-TR-2290	N63-23785	24-28	TEMPERATURES - CONCENTRATION OF PO DILUTED IN SINGLE POTASSIUM CHLORI	TASSIUM 10	DIDE .S 17-25
ULTRAVIOLET OBJECTIVE SPECTROGRAM OPERATION BY MERCURY ASTRONAUT BEC-4674	N63-13640	08-15	MEASURING REFRACTION INDEX OF META	WE SENSE	ATO SE
RAVIOLET SPECTAGRETER		1.20	ULTRAVIOLET SPECTRAL REGION NASA-CR-50265	163-18496	17-23
HIGH ALTITUDE ULTRAVIOLET BACKGRO	DUND STUDY	STNG	ULTRAVIDLET SPECTRA OF SHOCK HEATE		
	ATMOSPHERIC BACKGROUND RADIATION VISIBLE AND INFRARED LAS-TR-199-36 ULTRAVIOLET PHOTODETECTORS — PHO COMMBERS, PHOTOTUBES AND PHOTOMUS NASA-TN-D-1718 SPACE ENVIRONMENTS — VACUUM, THEI ULTRAVIOLET AND PARTICLE RADIATION IN AVECUMENT OF RADIATION IN AVECUMENT OF RADIATION IN AVECUMENT ULTRAVIOLET RADIATION EFFIN VACUUM ULTRAVIOLET RADIATION FOR CELESTON OF ARMADO-TR-60-371, PT. 11 EMISSION—LINE INTENSITIES IN SOLAR EMISSION LINES IN EXTREME ULTRAVIOLET RADIATION REFLECTIVITURE OF AMBRICAN EXTREMENT OF AMBRICAN EXTREMENTATION AS AROUND EXTREMENT OF AMBRICAN EXTREMENTATION FOR THE CONTINUOUS	ATMOSPHERIC BACKGROUND RADIATION — ULTRAVIOLE VISIBLE AND INFRARED LAS-TR-199-36 M63-18473 ULTRAVIOLET PHOTODETECTORS — PHOTOIONIZATION CHAMBERS, PHOTOTUBES AND PHOTOMULTPLIERS NASA-TN-D-1718 SPACE ENVIRONMENTS — VACUUM, THERMAL VACUUM, ULTRAVIOLET AND PARTICLE RADIATION — EFFECTS PLASTIC MATERIALS — THERMOPLASTICS SOURCE & DETECTOR OF RADIATION IN 1500-50 AUM MAVELENGTH RANGE FOR STUDY OF RADIATION EFFECTS ON MATERIALS IN VACUUM ULTRAVIOLET MADD-TR-60-371, PT. II M63-19325 VACUUM ULTRAVIOLET RADIATION EFFECTS ON MATERIALS IN VACUUM ULTRAVIOLET MADD-TR-60-371, PT. II M63-19326 EMISSION—LINE INTENSITIES IN SOLAR ULTRAVIOLET M63-19695 SOLAR EMISSION LINES IN EXTREME ULTRAVIOLET M63-19695 SOLAR EMISSION LINES IN EXTREME ULTRAVIOLET M63-19696 PHOTOELECTRONS FROM SOLAR EXTREME ULTRAVIOLET M63-19697 ULTRAVIOLET RADIATION REFLECTIVITIES OF MARS M63-19704 ULTRAVIOLET RADIATION FROM CELESTIAL SOURCES M63-19705 ULTRAVIOLET RADIATION FROM CELESTIAL SOURCES M63-19705 ULTRAVIOLET TARGET RADIOMETER FOR INCORPORAT NIKE—JAVELIN ROCKET INSTRUMENT PAVIOLAD M63-19763 MULTRAVIOLET TARGET RADIOMETER FOR INCORPORAT NIKE—JAVELIN ROCKET INSTRUMENT PAVIOLAD M63-19763 MULTRAVIOLET TARGET RADIOMETER FOR THE ULTRAVIOLE RADIATION WITH ULTRAVIOLET LIGHT MPRS-20609 PHOTOMULTIPLIERS FOR ROCKET—BORNE ULTRAVIOLE BY IRRADIATION PHOTOMETER M63-20855 SOLAR BLIND PHOTOMULTIPLIERS FOR THE ULTRAVIOLE RADIATION SPECTRUM — METALLIC CATHODES M63-20857 DETERMINING GUIDANCE ACCURACY OF AIRBORNE MI USING PHOTOMULTIPLIERS AND FILTERS OF ULTRAVIOLET RACIATION SPECTRUM — METALLIC CATHODES M63-20857 DETERMINING GUIDANCE ACCURACY OF AIRBORNE MI USING PHOTOMULTIPLIERS FOR ROCKET—BORNE MI USING PHOTOMULTIPLIERS AND FILTERS OF ULTRAVIOLET WACAUM ULTRAVIOLET RADIATION M63-20861 VACUUM ULTRAVIOLET RADIATION AS PROBE OF RAR GAS PLASMAS AROD-2267-7 MO3-21009 POPULATION INVERSION BETWEEN BOUND AND REPULTATION IN NASA-CR-S2134 MO3-23765 RAVIOLET SPECTROGRAPH ULTRAVIOLET RADIATION M63-23040 STABILITY OF WHITE TEMPERATURE—CONTROL COATISPECTIVE S	LASTREP9-36 ULTRAVIOLET PHOTODETECTORS - PHOTOTOUNIZATION CHAMBERS, PHOTOTOBES AND PHOTOHULTPIERS NASA-TH-D-1718 SPACE ENVIRONMENTS - VACUUM, THERMAL VACUUM, ULTRAVIOLET AND PARTICLE RADIATION - FFECTS ON PLASTIC MATERIALS - THERMOPLASTICS SQURCE & DETECTOR OF RADIATION IN 1500-50 AU MAVELENGTH RANGE FOR STUDY OF RADIATION EFFECTS ON MATERIALS IN VACUUM ULTRAVIOLET NADD-TR-60-371 NAG-19325 18-24 VACUUM ULTRAVIOLET RADIATION EFFECTS ON MATERIALS IN VACUU - SPACE ENVIRONMENTAL RESEARCH FACILITY NADD-TR-60-371, PT. II MAS-19326 18-10 ENISSION-LINE INTENSITIES IN SOLAR ULTRAVIOLET NAS-19696 PHOTOELECTRONS FROM SOLAR EXTREME ULTRAVIOLET NAS-19696 PHOTOELECTRONS FROM SOLAR EXTREME ULTRAVIOLET NAS-19704 19-05 ULTRAVIOLET RADIATION REFLECTIVITIES OF MARS AND JUPITER MAS-19705 ULTRAVIOLET TARGET RADIOMETER FOR INCORPORATION IN NIKE-JAVELIN ROCKET INSTRUMENT PAVICAD NAS-19705 ULTRAVIOLET TARGET RADIOMETER FOR INCORPORATION IN NIKE-JAVELIN ROCKET INSTRUMENT PAVICAD NAS-19705 NAS-19705 SOLAR BLIND PHOTOMULTIPLIERS FOR THE ULTRAVIOLET RADIATION WITH ULTRAVIOLET LIGHT RADIATION PHOTOMETER SOLAR BLIND PHOTOMULTIPLIERS FOR THE ULTRAVIOLET RADIATION PHOTOMETER AGS-20857 21-23 DETERMINING GUIDANCE ACCURACY OF AIRBORNE MISSILES USING PHOTOMULTIPLIERS AND FILTERS OF ULTRAVIOLET RADIATION PHOTOMETER AGS-20857 POPULATION INVERSION BETWEEN BOUND AND REPULSIVE RADIATION PHOTOMETER AGS-20857 POPULATION INVERSION BETWEEN BOUND AND REPULSIVE RAGIO-2267-7 NG-20857 NG-21099 21-24 POPULATION INVERSION BETWEEN BOUND AND REPULSIVE RADIATION FFECTS ON EARTH ATMOSPHERE AND NG-23940 24-29 STABILITY OF WHITE TEMPERATURE—CONTROL COATING FOR SYACECRAFT UNDER ULTRAVIOLET TRADIATION IN VACUUM NASA-CR-52134 NGS-23501 24-23 INSTRUMENTATION FOR THE CONTINUOUS HEASUREMENT OF SOLAR AND SKY ULTRAVIOLET RADIATION NGS-23765 24-28 NAS-21040 DEPERATION BY MERCURY ASTRONAUT NGS-23640 06-15	ATMOSPHERIC BACKGROUND RADIATION - ULTRAVIOLET, Nab-18473 17-10 ULTRAVIOLET PHOTODETECTORS - PHOTOIONIZATION SPECEMBRINGS, PHOTOTURES AND PHOTOHULTRIESS Nab-7-16-1718 SPECE ENVIRONMENTS - VACUUM, THERMAL VACUUM, ULTRAVIOLET AND PARTICLE RADIATION - EFFECTS ON PARTICE ARTERIALS - THERMALY ACCUUM, ULTRAVIOLET AND PARTICLE RADIATION IN 1500-50 AU NAVELEWRITH RANGE FOR STUDY OF RADIATION EFFECTS SOURCE & DETECTOR OF RADIATION IN 1500-50 AU NAVELWRITH RANGE FOR STUDY OF RADIATION EFFECTS SOURCE & DETECTOR OF RADIATION EFFECTS ON NAVELWRITH RANGE FOR STUDY OF RADIATION EFFECTS SOURCE & DETECTOR OF RADIATION EFFECTS ON NAVERAL OF THE WAS AND	ATMOSPHERIC BACAGOUND RADIATION — ULTRAVIOLET, MAS—199—36 LAS—TRA—199—36 MAS—199—36 MAS—199—37 MAS—199—39 MA

HASS OPED 2-07 TIC 3-16 OF 9-07

Y 1-07 NGS, EL

4-28 NT 5-12 JR 5-07 IN)-23 GHT -12

NUS '-05

OF -07 HO -07 ND -09

-24

DE -23

-25 - 11 -25

-23

-01

OPTICAL INSTRUMENT CALIBRATION FOR ELECTROMAGNETIC RADIATION MEASUREMENTS - INFRARED, ULTRAVIOLET, AND VISIBLE SPECTRA - DEFENDER PROJECT BANIFAC-4613-20-R N63-18988 18-15	UNDERWATER PROPULSION THERMAL POWERPLANTS FOR UNDERWATER PROPULSION NOTS-TP-2876 N63-11886 04-27
SPECTROSCOPY OF DIATOMIC HOLECULES FROM NEAR INFRARED TO FAR ULTRAVIOLET	UNDERWATER SOUND SOUND AND BODY CHARACTERISTICS OF DOLPHINS - APPLICATIONS TO BIONICS
AFCRL-63-625 N63-19108 18-07	JPRS-17079 N63-11684 04-16
INTENSITY DISTRIBUTION IN ULTRAVIOLET SOLAR SPECTRUM - 6 M 19-05	UNDERWATER SOUND PROPAGATION - DCEANGGRAPHY, SONAR SOUND FIELD, DCEAN MODEL 12763 04-23
SATELLITE DESIGN FOR MEASURING THE ULTRAVIOLET SPECTRUM OF STARS RAE-R-SPACE-1 N63-20838 21-32	MECHANISM OF MUMAN LOCALIZATION OF SOUNDS WITH APPLICATIONS IN REMOTE ENVIRONMENTS NOTS-TP-3109, PT. 2 N63-12495 06-08
ULTRAVIOLET RADIATION SPECTRUM AND MILITARY APPLICATIONS LAS-TR-199-37 N63-20851 21-23	MAGNETIC CORE NATRIX TIME COMPRESSOR /MACONATIC/ CORRELATION SIGNAL PROCESSING SYSTEM — UNDERWATER ACOUSTIC SIGNALS NEL-1161 N63-18854 18-23
MATERIALS WITH OPTICAL PROPERTIES FOR FILTERS AND OPTICS IN ULTRAVIOLET REGION OF ELECTROMAGNETIC N63-20852 21-19	UNDERWATER TRAJECTORY MOTION OF A PAIR OF VORTICES BEHIND A CYLINDER NWL-1794 N63-10611 02-11
SOLAR BLIND PHOTODIODES HAVING MAXIMUM SENSITIVITY IN HIDDLE ULTRAVIOLET RADIATION SPECTRUM N63-20856 21-09	UNDERWATER TRAJECTORIES FOR FINNED BODY MISSILES - NONLINEAR MOTION EQUATIONS R-898 N63-19513 19-22
PHOTOMULTIPLIERS FOR ULTRAVIOLET SPECTRUM N63-20858 21-09	UNDERWATER VEHICLE
IMAGE TUBE SENSISTIVE TO RADIATION IN ULTRAVIOLET SPECTRUM	REINFORCED PLASTICS FOR UNDERWATER ORDNANCE AND DEEP SUBMERGENCE CONSTRUCTIONS NOLTR-62-206 N63-14407 10-34
PHOTON COUNTERS FOR THE ULTRAVIOLET AND VACUUM ULTRAVIOLET RADIATION SPECTRUM N63-20860 21-23	UNIQUENESS THEOREM EXISTENCE AND UNIQUENESS THEOREMS FOR NEUTRON TRANSPORT EQUATION N63-17675 16-24
RADIOMETRIC CALIBRATIONS IN ULTRAVIOLET SPECTRUM OF LIGHT RADIATION N63-20862 21-23	UNIT S ASTRONOMICAL UNIT AND SALE AND SALES CASSISATION OF THE CONTROL OF THE CON
SCATTERED RADIATION IN MIDDLE ULTRAVIOLET SPECTRUM REGION N63-20863 21-28	UNITARITY AND HIGH ENERGY INCLASTIC SCATTERING AFGSR-TN-2640 N63-11636 04-23
ABSORPTION SPECTRUM OF NITROGEN IN FAR ULTRAVIOLET REGION - MOLECULAR STRUCTURE N63-21741 22-23	UNITED STATES U.S. FOREIGN POLICY IMPLICATIONS OF SPACE SCIENCE
ISOTOPIC SHIFTS IN SOME ULTRAVIOLET SYSTEMS OF NITROGEN - MOLECULAR STRUCTURE AND SPECTRUM N63-21742 22-23	N63-11153 03-01 THE UNITED STATES STANDARD ATMOSPHERE, 1962 ARS PAPER-2678-62 N63-11271 03-21
ULTRAVIOLET SPECTRUM OF MAGNESIUM COMPOUNDS - MOLECULAR STRUCTURE OF HYDRIDE & DEUTERIDE N63-21746 22-23	NUCLEAR REACTOR FACILITIES - UNITED STATES N63-12936 07-10
ULTRAVIOLET SPECTRA OF AFTERGLOW OF ATOMIC NITROGEN 163-21947 22-11	U.S. STANDARD ATMOSPHERE - 1962 - 1963 - 1974 - 197
PHOTOLYSIS OF NITROGEN DIOXIDE IN VIOLET AND ULTRAVIOLET SPECTRUM NASA-CR-52016 N63-23619 24-07	U.S. STANDARD ATMOSPHERE, 1962 - PROPERTIES, DEVELOPMENT OF GRAVITY AND GEOPOTENTIAL, SYSTEMATIC VARIATION N63-13176 07-12
UMBILICAL TOWER LITTLE JOE II LAUNCHER UMBILICAL RETRACTION TEST SL-63-033 163-18188 16-30	POLYMONIAL PIT TO DEFINING POINTS FOR MEAN HOLECULAR WEIGHT IN 1962 U.S. STANDARD ATMOSPHERE GCA-TR-63-4-A N63-14363 10-20
UNDERCARRIAGE CALCULATION OF EFFECT OF NOSE GEAR SLAPDOWN WITH UNCONVENTIONAL UNDERCARRIAGE	BALLOON FLIGHT PROGRAM - INTERNATIONAL COOPERATION BETMEEN UNITED STATES AND INDIA IN 1961 - STRATOSPHERE
LN-INTERN-27 N63-11714 04-04	AFCRL-62-1135 N63-18683 17-21
UNDERWATER ENERGY DISTRIBUTION IN AN UNDERWATER SPARK	UPPER AIR WIND PROFILE FOR SOUTHWESTERN UNITED
OISCHARGE - PRESSURE FORMING AID-62-89 N63-11673 04-17	ERDA-45 N63-19009 18-21 UNITED STATES SPACE PROGRAM - LAUNCH VEHICLES,
NIGRATION OF UNDERWATER EXPLOSION BUBBLES NAVORD-4185 N63-13085 07-11	SATELLITES AND SPACECRAFT N63-19368 18-01
HIGH SPEED PHOTOGRAPHS OF BOUNDARY DISTURBANCES NEAR UNDERWATER EXPLOSION BUBBLE NAVORD-6877 N63-14577 10-11	TERRAIN ANALYSIS OF THE UNITED STATES SURFACE FEATURES AS VIEWED BY TIRDS ARA-T-9219-4 N63-20718 21-12
UNDERWATER EXPLOSION TANK OF HYDRA PROJECT	UNMANNED SPACECRAFT
USNROL-TR-623 N63-15539 12-10 MIGRATION OF UNDERWATER EXPLOSION BUBBLES	NUCLEAR-ELECTRIC SPACECRAFT FOR UNMANNED SPACE EXPLORATION N63-10079 01-30
NOLTR-62-184 13427 18074 1813 N63-20546 20-11	RELIABILITY MODEL AND ANALYSIS FOR PROJECT

RELIABILITY MODEL AND ANALYSIS FOR PROJECT

GCA-OXYG HIN INS

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MERCURY 3-ORBIT MANNED AND UMMANNED MISSION NASA-TN-D-1558 N63-10536 01-32	FORCED OSCILLATION, SCATTERING, MIND TUNNEL N63-13513 G8-32
DESIGN OF UNMANNED SPACECRAFT FOR PLANETARY AND INTERPLANETARY EXPLORATION - STERILIZATION - HEAT SHIELDS 1AS PAPER-63-36 N63-12890 07-32	AERODYNAMIC LOADS ON HIGH-SPEED AIRCRAFT EXTERNAL STORE ADJACENT TO AN UNSWEPT WING AT MACH 0.75 TO 1.96 NACA-RH-L55L07 N63-13880 09-92
STERILIZATION OF UNMANNED PLANETARY AND LUNAR SPACE VEHICLES JPL-TR-32-325 N63-13440 08-16	WIND TUNNEL TESTS TO IMPROVE STATIC DIRECTIONAL STABILITY OF UNSWEPT-WING AIRCRAFT AT MACH 0.8-2,2 NASA-MEND-10-4-58A N63-13884 09-8)
WATER MODERATED REACTORS FOR NUCLEAR ROCKETS IN UNMANNED SPACE FLIGHT N63-13579 08-27	FLIGHT-DETERMINED STABILITY & CONTROL DERIVATIVES OF SUPERSONIC AIRCRAFT WITH LOW ASPECT RATIO
RHEOLOGICAL BEHAVIOR OF AEROSOL IN WATER - SEDIMENTATION & VISCOSITY STABILIZATION STUDIES N63-15234 11-11	NASA-MEMO-2-2-59H . N63-13886 09-04 AERODYNAMIC LOAD AND FLUTTER ON SWEPT AND UNSWEPT
STERILIZATION OF UNMANNED LUNAR AND PLANETARY SPACECRAFT AGAINST EARTH MICROBIAL ORGANISMS JPL-TR-32-325/REV-/ N63-15243 11-32	WINGS AT VARIOUS SPEEDS NASA-TM-X-183 UPPER ATMOSPHERE
SYSTEMS CHECKOUT AND FLIGHT TESTING OF UNMANNED LUNAR AND PLANETARY SPACECRAFT N63-17030 15-32	CF MAGNETOSPHERE THE UPPER ATMOSPHERE BOUNDARY LAYER BETWEEN EARTH AND INTERPLANETARY SPACE WGL PAPER-2 N63-10002 D1-12
UNMANNED LUNAR EXPLORATION SPACECRAFT - RANGER, SURVEYOR, AND PROSPECTOR PROJECTS NASA-TM-X-50135 N63-18863 18-29	TEMPERATURE DETERMINATION FROM A CLOUD OF ALKALI VAPOR IN THE UPPER ATMOSPHERE AFCRL-62-1049 N63-10122 01-29
UNMANNED INSTRUMENTED SPACECRAFT FOR EXPLORATION OF SOLAR SYSTEM - NASA PROGRAM N63-21136 21-32	THE MAGNETOSPHERE - DENSITY MEASUREMENTS, ATMOSPHERIC DRAG, TEMPERATURE N63-10568 01-12
UNSTEADY FLOW HIGH SPEED UNSTEADY FLOW ASD-TDR-62-463 N63-10133 01-02	STUDIES OF THE UPPER ATMOSPHERE - AURORA AND AIRGLOW NASA-TT-F-106 N63-10988 02-12
LINEARIZED THEORY OF THE UNSTEADY MOTION OF A PARTIALLY CAVITATED HYDROFOIL TRG-153-SR-1 N63-10454 01-11	SOVIET-BLOC RESEARCH IN GEOPHYSICS, ASTRONOMY, AND SPACE SCIENCES /NO. 29/ 1962 JPRS-12445 N63-11013 03-01
APPROXIMATION OF UNSTEADY TRANSONIC FLOW BASED ON NONLINEAR SMALL DISTURBANCE THEORY NAL-TR-27 M63-11910 04-03	HELIUM IONS IN UPPER ATMOSPHERE AFCRL-62-1119 N63-11021 03-12
CALCULATION OF INCOMPRESSIBLE LAMINAR BOUNDARY LAYERS OVER ARBITRARY CYLINDERS IN UNSTEADY FLOW	FALLING-SPHERE EXPERIMENT FOR UPPER-AIR-DENSITY - INSTRUMENTATION AFCRL-62-662 N63-11030 03-15
N63-13110 07-11 ANALOG METHOD OF CALCULATING LINEARIZED, UNSTEADY, INCOMPRESSIBLE FLOWS AND LIFT SUFFACE THEORY	NOTES ON THE COSMIC SPACE SYMPOSIUM, 1962 JPRS-16749 N63-11188 03-12
TIL/T-5323 N63-14451 10-11 SMALL-TIME BEHAVIOR OF UNSTEADY CAVITY FLOW - TIME DEPENDENT PERTURBATIONS N63-15699 12-11	CHEMICAL RELEASES IN THE UPPER ATMOSPHERE - FIREFLY PROJECT - BLAST MAVES N63-11241 03-12
HEAT TRANSFER ON COMCAVE HEMISPHERICAL MOSE SHAPE WITH UNSTEADY FLOW EFFECT NACA-RM-LSB025A N63-16241 13-13	EXPANSION TO AMBIENT PRESSURE OF CHEMICAL EXPLOSIVE RELEASES IN THE UPPER ATMOSPHERE N63-11242 03-12
LINEARIZED THEORY FOR UNSTEADY TRANSONIC FLOW MIT FLUID DYN. RES. LAB63-2	MOLECULAR AND TURBULENT DIFFUSION IN THE UPPER ATMOSPHERE N63-11243 03-12
N63-17020 15-11 FINITE DIFFERENCE SOLUTION OF UNSTEADY FLOW PROBLEMS IN TWO-DIMENSIONAL SPACES - UNDERNATER	UPPER ATMOSPHERE MIND MEASUREMENTS DETERMINED FROM TWELVE ROCKET EXPERIMENTS - SODIUM AND CESIUM VAPOR CLOUDS N63-11244 03-12
SHOCK WAVE APPLICATIONS AS-63-2 N63-19824 19-11	POSITION DETERMINATION OF ARTIFICIAL CLOUDS IN THE UPPER ATMOSPHERE N63-11245 03-12
ANEMOMETER FOR UNSTEADY WIND VELOCITY MEASUREMENTS N63-20581 20-15	THEORETICAL MODELS FOR THE SOLAR-CYCLE VARIATION OF THE UPPER ATMOSPHERE N63-11597 04-12
TEMPERATURE-FLOW INSTABILITY CAUSING OSCILLATION IN HELIUM LAMS-2934 N63-21017 21-13	UPPER ATMOSPHERE PHYSICS - ELECTRON COLLISION, RECOMBINATION, AIRGLOW AFCRL-62-1138 N63-11692 04-12
UNSWEPT WING SPIN OF SCALE MODEL UNSWEPT WING, TWIN-ENGINE, OBSERVATION AIRCRAFT	PITOT-STATIC TECHNIQUE FOR UPPER ATMOSPHERIC MEASUREMENTS NS-1 N63-12144 05-12
NASA-TN-0-1916 N63-12243 05-04 SUBSONIC AND SUPERSONIC FLUTTER CALCULATIONS ON SMEPT AND UNSMEPT MINGS TO EVALUATE EFFECTS OF	ATMOSPHERE MEASUREMENTS BY MEANS OF SOUNDING ROCKET AND SATELLITES AFCAL-62-1021 N63-12290 05-12
VARIATIONS IN AERODYNAMIC PARAMETERS AND DENSITY MASA-TM-X-182 N63-12914 07-03	ROCKET POLLUTION OF UPPER ATMOSPHERE - CHANGES IN COMPOSITION, TEMPERATURE, ELECTRON DENSITY, AND
TESTS ON AGARD MODEL D - DAMPING, UNSWEPT WING,	AIRGLOW

SPECTRAL ANALYSIS OF COMETARY, SOLAR, AND UPPER ATMOSPHERIC PROCESSES AFCRL-63-648 N63-17540 16-

08-02

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UPPER ATMOSPHERE DENSITY PROFILE FROM FALLING
SPHERE DRAG MEASUREMENTS
AFCRL-62-1136
N63-17564
16-12 \$€A-TR-62-18-G 463-12770 06-12 BAYGEN AND NITROGEN CHEMISTRY OF UPPER ATMOSPHERE N63-12882 MIND AND TEMPERATURE BETWEEN 30 AND 60-KM -THERMISTORS FOR ROCKETSONDE OF UPPER ATMOSPHERE N63-17745 16 MINIATURE TELEMETRY TRANSMITTER FOR UPPER ATMOSPHERE RESEARCH N63-1304 N63-13043 07-08 STRUCTURE AND CHEMICAL ANALYSIS OF UPPER
ATMOSPHERE AND IONOSPHERE BY SOUNDING ROCKET AND
SIMULATION STUDIES N63-18067 16-12 IONIC CONDUCTIVITY STUDIES IN UPPER ATMOSPHERE -N63-13044 WINDS, DIFFUSION, AND EXPANSION OF GAS IN UPPER ATMOSPHERE
GCA-TR-62-13-N 163-18335 17-12 MEASUREMENT OF WIND IN UPPER ATMOSPHERS BY FALLING SPHERES FROM SOUNDING ROCKETS AND BALLOOMS N63-13112 07-21 DENSITY OF UPPER ATMOSPHERE DETERMINED BY
DIFFUSION OF SODIUM VAPOR N63-18440 17-12 UPPER ATMOSPHERE OF THE PLANETS N63-13168 RADIO-FREQUENCY WASS SPECTROMETER MEASUREMENTS OF ION COMPOSITION OF UPPER ATMOSPHERE ROCKET SOUNDING OF UPPER ATMOSPHERE FOR ION DENSITY, WIND VELOCITY, TEMPERATURE DISTRIBUTION COSMIC RAYS, AND ELECTRON DENSITY N63-18441 UPPER AIR WIND PROFILE FOR SOUTHWESTERN UNITED STATES DIGITAL RAY DATA ANALYSIS OF SATELLITE AND ROCKET RADIO TRANSMISSIONS 18-21 281-1163 N63-13285 07-12 USSR ABSTRACTS - TELLURIC CURRENTS, METEOROLOGY OF UPPER ATMOSPHERE, SOLAR RADIATION IN IONOSPHERE AND ATMOSPHERIC ELECTRICITY PHYSICS OF SOLAR CORPUSCULAR STREAMS AND EFFECT ON UPPER ATMOSPHERE - SOLAR FLARES, SOLAR SPECTROGRAPH, AND AURORAE N63-13775 08-29 AID-P-63-87 N63-19514 19-12 LONG RANGE EFFECTS OF ROCKET POLLUTION ON UPPER ATMOSPHERE - PERTURBATION OF PHOTOCHEMICAL SYSTEMS CCA-TR-62-5-G N63-14035 09-12 PERTURBATION THEORY APPLIED TO NOLECULAR QUANTUM MECHANICS - CALCULATION OF INTERNOLECULAR FORCES & POTENTIAL ENERGY SURFACES IN UPPER ATMOSPHERE NASA-CR-50787 N63-19674 19-07 09-12 SOLAR ULTRAVIOLET INTERACTIONS WITH ROCKET EXHAUST GASES IN UPPER ATMOSPHERE - ABSORPTION BY IONIZATION OR DISSOCIATION N69-14036 09-12 UPPER-ATMOSPHERE STRUCTURE MEASUREMENT MADE WITH N63-19677 PITOT-STATIC TUBE 19-12 TELEMETERING MONOCHROMATOR MEASUREMENTS OF SOLAR 304-A RADIATION AND ITS ATTENUATION IN UPPER ATMOSPHERE N63-19682 19-CHANGES IN TEMPERATURE STRUCTURE OF UPPER ATMOSPHERE - ROCKET POLLUTION GCA-TR-62-13-G N63-14037 NITRIC OXIDE AND HOLECULAR DXYGEN IN UPPER UPPER ATMOSPHERIC ELECTRON REMOVAL TECHNIQUES
AFCRL-63-52
N63-14447 19-12 ATMOSPHERE OF EARTH RADIO ASTRONOMY - SOLAR RADIO WAVE, UPPER ATMOSPHERE RADIO OBSERVATION, AND RADIO EQUIPMENT COMBINED RETARDING POTENTIAL ANALYSIS OF PHOTOELECTRONS AND ENVIRONMENTAL CHARGED PARTICLES IN UPPER ATMOSPHERE N63-19689 19-15 AFCRL-63-224 N63-15217 11-05 EARTH UPPER ATMOSPHERE - TEMPERATURE AND DENSITY VARIATIONS REVEALED BY ATMOSPHERIC DRAG ON SATELLITE ORBITS N63-15819 13-1; ELECTRON SPECTRA AND FLUXES TRAPPED IN EARTHS MAGNETIC FIELD FOLLOWING RECENT HIGH ALTITUDE NUCLEAR EXPLOSIONS OF STARFISH PROJECT UCAL-7309. REV. T NA3-19921 19-12 DETERMINATION OF UPPER ATMOSPHERE DENSITY FROM CHANGES IN SATELLITE ORBITS AND METEOROLOGICAL INSTRUMENTS CARRIED ON SATELLITES ATORIC AND ELECTRONIC COLLISION RELEVANT TO UPPER ATMOSPHERE RAE-TRANS-1027 DECREASE IN UPPER ATMOSPHERE DENSITY BETWEEN 1957 AND 1963 DESERVED BY SATELLITE ORBITS SYSTEM FOR NUCLEAR AUXILIARY POWER PROGRAM - UPPER ATMOSPHERE EXPERIMENTAL REENTRY STUDY N63-16336 13-30 RAF-TN-SPACE-32 THERMAL ENVIRONMENT IN THE UPPER ATMOSPHERE N63-20082 21-12 LIGHT SCATTERING BY AEROSOLS IN UPPER ATMOSPHERE N63-16602 14-12 TURBULENCE IN THE UPPER ATMOSPHERE - STRATOSPHERE PERSPECTIVES FOR GEOPHYSICAL RESEARCH IN HIGHER ATHOSPHERE - ROCKETRY N63-21078 21-12 AND UPPER TROPOSPHERE N63-16817 14-11 LOW ELECTRIC FIELD STRENGTH AT SURFACE OF VEHICLE IN UPPER ATMOSPHERE AFCRL-63-236 R63-21436 22-13 STRUCTURAL ANALYSIS OF UPPER ATMOSPHERE FROM ROCKET AND SATELLITE MEASUREMENTS OF CHARGED PARTICLES N63-17106 15-12 M63-21436 22-13 PHENOMENA IN UPPER ATMOSPHERE - SOLAR RADIATION & THE IONOSPHERE & NETEOROLOGY OF UPPER ATMOSPHERE - REVIEW OF SOVIET LITERATURE HIGH ALTITUDE SOUNDING ROCKETS FOR UPPER AIR TEMPERATURE AND DENSITY MEASUREMENTS N63-17159 15-04 CONDITIONS FOR IDEAL MIXTURE OF CHEMICAL SPECIES OVER WIDE RANGE OF COMPOSITIONS - UPPER ATMOSPHERE RM-3677-PR N63-17399 15-07 MISSION AND DESIGN CONSIDERATIONS OF THE AERONOMY
SATELLITE 5-6 N63-23414 24-32 PHOTOCHEMISTRY, PHYSICAL STATE AND MOTION OF UPPER ATMOSPHERE BY CHEMICAL RELEASE WEATHER FORECASTING, PHYSICS AND STUDIES OF UPPER JPRS-21412 M63-23547 24-01 AFCRL-63-488 B 44 4 2 7 4 5 70 N63-17437 15-12 PHOTOCHERISTRY IN UPPER ATMOSPHERE AND ATMOSPHERIC RADIATION 24-12

N63-17540 16-05

COMERENT AND INCOMERENT SCATTERING CROSS SECTIONS OF GAMMA RAYS ON K AND L ELECTRONS OF GOLD AND URANIUM 155-63/8 RIST. N63-22780 23-23

N63-22780 23-23

UR

UPPER IONOSPHERE THICKNESS OF HELIUM ION LAYER IN UP NASA-TN-D-1686 N6	PER IONOS 3-13719	PHERE 08-12	DETERMINATION OF ENRICHED URANIUM IN URAN OXIDE-STAINLESS STEEL SOLUTIONS BY X-RAY FLUORESCENCE N63-124	13
ELECTRON DENSITY DISTRIBUTION IN UP	PER F-REG 3-14027	10N 09-12	SALT BATH HEAT TRANSFER RATES FOR URANIUM ANNEALING PROCESS TEMPERATURE DISTRIBUTION Y-1410 N63-1249	ONS
SOUNDING ROCKET MEASUREMENT OF ELECTO 1500 KILOMETERS N6			LINE DISCONNECTS FOR URANIUM PROCESSING	FACILITY
STRUCTURE OF UPPER IONOSPHERE AS OB TOPSIDE SOUNDER SATELLITE, ALOUETTE RRS/IM-94			ORNL-3389 N63-1298 POLARITY AND RELATIVE INTENSITY OF GAMMA EMITTED DURING TRANSMUTATION THORIUM-234	RAYS
making the later of the later o			PROTACTINIUM-234 METASTABLE N63-1394	
THEORETICAL MODELS OF THE D, E, AND UPPER IDNOSPHERE AND SELECTION OF M BEST FIT SPACE FLIGHT OBSERVATIONS NASA-RP-21 M6:	DDELS WHI	СН	USES FOR DEPLETED URANIUM AND NONENERGY INSTURAL URANIUM - SHIELDING, AMMUNITION, AND COUNTER WEIGHTS	
			DMIC-MEMO-165 N63-1428	3 10-18
NASA FIXED-FREQUENCY TOPSIDE-SOUNDE S-48 - UPPER IONOSPHERE N6	3-23416		SIX-INCH MASS SPECTROMETER FOR ISOTOPIC A OF SOLIDS, LIQUIDS OR GASES - BORON, LITH	
TOPSIDE SOUNDER PROGRAM - UPPER ION SOUNDING			NBL-191 N63-1464	4 10-15
	3-23678	24-12	CAPSULE IRRADIATION OF UNALLOYED URANIUM	AT HIGH
UPWASH UPWASH IN RECTANGULAR WIND TUNNEL W FLOW - BOUNDARY CONDITIONS	ITH VISCO	JS	TEMPERATURES - FUEL DEVELOPMENT FOR SODIU REACTORS NAA-SR-7098 N63-1466	N COOLED
ARC-R&M-3322 N6:			AUTORADIOMETRIC SYSTEM FOR DIFFERENTIATIN	CIA: ABRADA
URACIL SUSSESSES AND OSCILLATOR	CTREMETUR		NORMAL OR ENRICHED URANIUM OR URANIUM ALL	OYS
THE PI-ELECTRON SYSTEM OF URACIL -	SPECTRA	UP	NAA-SR-7752 N63-1497	494320488
	ES 3-13133	07-07	THERMAL EMISSION SOURCE AND MASS SPECTRON UTILIZATION FOR MEASUREMENT OF URANIUM IS ABUNDANCES AND REACTOR FUEL BURNUP	SOTOPE
URANTUM SELECTION OF THERMIONIC CATHODES FOR	R REACTOR	TESTS	PWAC-393	57 13-07
ARS PAPER-2550-62 N6: DOSIMETRY BADGE ORIENTATION EXPERIM	3-10269	01-06	IRRADIATION OF ZIRCALOY-2 CLAD URANIUM RC SODIUM-POTASSIUM-FILLED CAPSULES - FUEL E HW-67072 N63-1643	ELEMENTS
No.	3-10290	01-15	01-20 YCORI-ESS J-11-1	1-27-433
GAMMA RADIATION CURVES FOR STEEL, AN			AUTOMATIC MASS SPECTROMETER FOR RELATIVE MEASUREMENT OF URANIUM ISOTOPE K-1444 N63-164	53 14-15
		02-23	ELECTRON BEAM MELTING OF URANIUM FOR REMO	OVAL OF
ORIGIN OF TEKTITES - URANIUM AND LEA AND ISOTOPIC COMPOSITION OF THE LEAD NASA-TT-F-113 N6:		04-29		36 15-07
URANIUM ELECTROLYTIC CELL, DISSOLUTI TETRAFLUORIDE, INSTRUMENTATION FOR E	ION OF URA	ANIUM	URANIUM FUEL ELEMENT ARRANGEMENTS IN TRIA GRAPHITE LATTICE NUCLEAR REACTOR - CRITIC LOADINGS AND FUEL ELEMENTS	AL TATAN
SPECTROSCOPY, HYDROGEN CONTENT IN UP MCW-1479 N63	3-12022	05-07	NAA-SR-7541 N63-1747	ORTHURSES.
NITRIDATION RATES OF URANIUM-FISSIUM ANL-6642 NG		05-07	NUCLEAR CHEMISTRY AND GEOCHEMISTRY RGD - CHARGE, URANIUM-230 FISSION YIELD, RADIUM MANGANESE TUFA, AND FISSION PRODUCED ZIRO	H-226 IN
NATURAL RADIOELEMENTS AND ANALYTICAL		FOR	N63-1836	NETEN PO
	3-12164		SPERT REACTOR PROJECT - DESTRUCTIVE TEST: ALUMINUM-CLAD URANIUM FUEL ELEMENTS 100-16893 N63-1881	562-4-04B
AUTOMATIC MASS SPECTROMETER FOR MON! ISOTOPE CONCENTRATIONS	ITORING U	RANTUM	PARTICULATE STATE OF FISSION PRODUCTS REL	LEASED
	3-12172	970 11	FROM IRRADIATED URANIUM WHEN HEATED IN AL	IR A
BETWEEN LIQUID BISMUTH-MAGNESIUM ALE EUTECTIC CHLORIDE MIXTURE	LOY & TERM	ARY	NEUTRON FLUX STRUCTURE IN GRAPHITE LATTIC URANIUM METAL & OXIDE FUEL ELEMENTS - BUG	
BNL-639/T-2010/ M6	3-12333	05-07	AND FLUX DISTRIBUTION AEEW-R-235, PT. III N63-200	58 20-2
RADIATION PROCESSING - COBALT 60 GAI OF URANIUM AND HYDROCARBONS BNL-753/T-278/ N6:			SURFACE TENSION MEASUREMENTS - URANIUM AN	ND COPPER
CATION EXCHANGE METHOD FOR SEPARATION OF PLUTONIUM IN PLUTON	ON AND		URANIUM DETERMINATION AT MICROGRAM LEVELS DERIVATIVE POLAROGRAPHY	
REACTOR FUEL ELEMENTS	au can wil	1321#	BHL-800/T-307/ N63-222	33 23-0
FUSION CURVES OF ALUMINUM, GALLIUM,		NO W	CROSS SECTIONS FOR INELASTIC SCATTERING OR RAYS ON K AND L ELECTRONS OF GOLD AND URA	ANEUNIONS
THALLIUM AT HIGH PRESSURE AND PHASE OF URANIUM			ISS-63/7 RIST. 18 18 18 18 18 18 18 18 18 18 18 18 18	
UCRL-7128 No.	3-12424	06-07	COHERENT AND INCOHERENT SCATTERING CROSS	SECTIONS

CONTROL PROGRAM FOR ANALYSIS OF NUCLEAR FUEL -URANIUM BIAS CHECK N63-12442 06-07

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215

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3

IN HYDROGEN | PAGE SEATIONS COMMANDE AND THE MEST AND AND NUCLEAR RADIATION EFFECT ON METALLIC FUELS -URANIUM, THORIUM, PLUTONIUM & THEIR ALLOYS REIC-29 N63-22935 23-18 06-07 INFLUENCE OF CARBON CONTENT ON THERMAL EXPANSION
OF ARC-CAST URANIUM MONOCARBIDE
NAA-SR-8538
NA3-22662 23-13 TE -PREPARATION OF URANIUM METAL BY CARBON REDUCTION IN VACUUM NAA-SR-8507 N63-23519 24-18 06-13 PLASTIC DEFORMATION OF URANIUM CARBIDE CRYSTALS -FLOW BEHAVIOR OF URANIUM CARBIDE SINGLE CRYSTALS AT HIGH TEMPERATURES UNDER COMPRESSION LOADING NAS-22816 23-19 URANIUM ALLOY USE OF DEPLETED URANIUM IN BEARING ALLOYS AND LOW-ALLOY STEELS 07-87 ELECTRON GUN DETERMINATION OF HIGH TEMPERATURE THERMAL DIFFUSIVITY OF URANIUM CARBIDE EUR-227-E N63-10659 02-17 REACTOR IRRADIATION OF URANIUM-IMPREGNATED GRAPHITE AT 1500 DEG TO 10 PERCENT BURNUP LAMS-2814 N63-12690 09-23 3011010 PS 18460 40 N63-23520 3 24-13 N63-12690 06-26 . URANIUM COMPOUND
URANIUM ELECTROLYTIC CELL, DISSOLUTION OF URANIUM
TETRAFLUORIDE, INSTRUMENTATION FOR EMISSION MICROSPECTROSCOPY, HYDROGEN CONTENT IN URANIUM
MCW-1479
N63-12022 05-07 INS. NIOBIUM DIFFUSION BARRIER FOR ALUMINUM-CLAD URANIUM ALLOY FUEL ELEMENTS 10-18 N63-14963 AUTORADIOMETRIC SYSTEM FOR DIFFERENTIATING BETWEEN NORMAL OR ENRICHED URANIUM OR URANIUM ALLOYS NAA-SR-7752 N63-14970 11-15 USES FOR DEPLETED URANIUM AND NONEMERGY USES FOR NATURAL URANIUM — SHIELDING, AMMUNITION, MEAPONS, AND COUNTER MEIGHTS
DMIC-MEND-165 N63-14283 10-1 0-15 INVESTIGATION OF TEMPERATURE TRANSFORMATION OF URANIUM ALLOYS AMRA-CR-63-02/1/F/ SPECTROPHOTOMETRIC DETERMINATION OF URANIUM IN MIXTURES OF URANIUM AND TUNGSTEN LA-2844 N63-14529 10 12-18 N63-15731 0-26 N63-14529 10-07 IRRADIATION EFFECTS ON THORIUM AND THORIUM-URANIUM ALLOYS WEEK SPECTROSCOPY OF MAGNESIUM, ELECTROLYTIC REDUCTION OF URANIUM OXIDE AND ELECTRON MICROSCOPE STUDY OF CHEMICAL BONDING OF URANIUM & ALUMINUM-SILICON NG-1803 16-07 ANL-5674 MA MANAGEMENT NO. 17914 1-15 STRESS CORROSION CRACKING OF URANIUM-MOLYBDENUM ALLOYS UNDER TENSION IN ATMOSPHERE N63-20432 Y-1417 20-18 IN-PILE RADIATION CORROSION EXPERIMENTS WITH ZIRCONIUM, TITANIUM, AND STEEL ALLOYS IN URANYL SULFATE SOLUTIONS AT 280-DEG C URANIUM CARBIDE -07 OXIDATION OF URANIUM CARBIDE BY CARBON DIOXIDE 04-07 N63-19077 ABSORPTION AND EMISSION SPECTRUM OF CALCIUM FLUORIDE-TRIVALENT URANIUM LASER MATERIAL REPROCESSING OF IRRADIATED URANIUM CARBIDE REACTOR NAA-SR-7511 N63-20472 04-07 N63-11827 THERMAL DECOMPOSITION OF URANIUM MONOCARBIDE BY PROPERTIES OF URANIUM MONONITRIDE FABRICATED BY ISOSTATIC HOT-PRESSING TECHNIQUE VAPOR PRESSURE TEST 21-19 URANIUM AND ZIRCONIUM CARBIDE CATHODES FOR STUDIES OF LITHIUM ALLOYS AND URANIUM COMPOUNDS THERMIONIC SPACE REACTORS - VAPOR LOSS, DIFFUSION RATE AND THERMOCONDUCTIVITY GASOMETRIC APPARATUS FOR CHARACTERIZING SOLID-GAS REACTIONS - SODIUM FLUORIDE MITH HYDROGEN FLUORIDE AND URANIUM HEXAFLUORIDE ORNL-3497 N63-23568 24-07 GA-2670 N63-13785 08-06 QUANTITATIVE DETERMINATION OF OXYGEN IN URANIUM MONOCARBIDE BY VACUUM HOT EXTRACTION URANIUM DIOXIDE 12-07 FUR-204. I SMAGING OF URANIUM DIOXIDE EUR-117.E N63-12644 06-17 IRRADIATION ÉVALUATION OF EXPERIMENTAL PYROLYTIC-CARBON-COATED URANIUM CARBIDE AND URANIUM DIOXIDE FUEL PARTICLES 8M1-1628 N63-16784 14-3 HIGH TEMPERATURE IRRADIATION TEST OF URANIUM DIOXIDE CERMET FUELS 14-33 BRI-1608 of mirror constant to URANIUM CARBIDE AS NUCLEAR FUEL N63-12687 D6-26 N63-17461 15-07 HIGH-TEMPERATURE IRRADIATION OF URANIUM DIOXIDE-BERYLLIUM OXIDE REACTOR FUELS IDD-28600 N63-1330A 07-3 UNC-5048 CARBURIZATION OF AUSTENITIC STAINLESS STEEL BY URANIUM CARBIDES IN SODIUM SYSTEMS NAA-SR-6246 N63-17695 16-18 N63-13306 07-23 CALCULATION FOR ZPR-VII LATTICE CRITICALITY
EQUATION WITH THORIA-URANIA FUEL IN HEAVY MAYER
ANL-6661 N63-13606 00 SMALL, LIGHTWEIGHT URANIUM CARBIDE FUELED NUCLEAR REACTOR MITH A BERYLLIUM REFLECTOR SURROUNDING CORE - ZPR-111 REACTOR
ANL-6713 N63-19219 18-16 N63-19219 18-10 FISSION GAS-RELEASE FROM URANIUM DIOXIDE DURING AND AFTER IRRADIATION 0MI-1623 N63-15531 12 463-15531 12-23 THORIUM & URANIUM DICARBIDE FUEL PARTICLE FOR HIGH TEMPERATURE GAS-COOLED REACTOR OXIDATION KINETICS OF URANIUM DIOXIDE IN AIR -THERMAL ANALYSIS N63-16141 13-07 N63-19234 18-17 GA-2881 URANIUM CARBIDE AND PLUTONIUM CARBIDE PROCESSING WITH TRIBUTYL PHOSPHATE - NUCLEAR CARBIDE MIXTURES AS REACTOR FUELS OXIDATION RESISTANCE OF URANIUM DIOXIDE MICROSPHERES COATED WITH OXIDES OF ALUMINUM, BERYLLIUM OR MAGNESIUM N63-19235 18-07 N63-14387 14-07 BM1-1625

IRRADIATION EVALUATION OF EXPERIMENTAL PYROLYTIC-CARBON-COATED URANIUM CARBIDE AND URANIUM DIGKIDE FUEL PARTICLES

BHI-1628 (31763-Build Moseley to N63-16784 , 14-33

NUCLEAR THERMIONIC EMITTERS OF URANIUM AND THORIUM CARBIDES AND EUROPIUM AND YTTRIUM HEXABORIDES GEST-2009 N63-19259 18-23

DECARBURIZATION OF CAST URANIUM CARBIDE BY HEATING

URI

VIBRATIONAL COMPACTION AND PRESSURE BORDING MN-1635 18-17 ELECTRIC CONDUCTIVITY AND THERROELECTRIC POWER OF MARKY STOCKHOPERIC LINEARLY STOCKHOPERIC LIN	URANIUM DIOXIDE FUEL ROD FABRICATION BY	FUEL WEST CHANGE TO BE VIOLATED TO WILLIAMS OF THE STATE OF
ELECTRIC COMPUTITITY AND THERMOERETRIC POWER OF MEANLY STOCKHORDITES UNCLEAR POWER AS A POWERTON OF SERVILION COLOR AT 25 TO 1000-000 C. MS3-10295 18-25 MS3-10295 18-25 MS3-10299 18-25 MICADIAGNOESS OF URANIUM DIOXIDE MS3-10299 18-25 MICADIAGNOESS OF URANIUM DIOXIDE MS3-10299 18-25 MICADIAGNOESS OF URANIUM DIOXIDE MS3-10299 18-25 MAGNETIC PULSE SWAGING - ELINIATING FUEL- DIOXIDE PULSE SIN PULSE SWAGING - ELINIATING FUEL- DIOXIDE PULSE SIN PULSE SWAGING - ELINIATING FUEL- STRINGSS STREEL ST NUTHORS OF URANIUM DIOXIDE COEFFICIENTS OF REACTIVITY FOR PULTONIUM DIOXIDE COEFFICIENTS OF REACTIVITY FOR PULTONIUM DIOXIDE STRINGSS STREE S PULTONIUM-URANIUM DIOXIDE MS3-10202 29-29 MAGNETIC PULSE SWAGING - ELINIATING FUEL- COEFFICIENTS OF REACTIVITY FOR PULTONIUM DIOXIDE MS3-10202 29-29 MS3-10202 29-29 MS3-10202 29-29 MS3-10203 29-29	VIBRATIONAL COMPACTION AND PRESSURE BONDING RMI-1637 N63-18838 18-17	BMI-1613 N63-13208 07-23
IRRADIATION BENAVIOR OF BERYLLIUM COLOR—MARIUM DIOKIDE MUCLEAR PEUE AS A PUNCTION OF PUEL PARTICLE SIZE GA-413B MICACHARAMICS SIZE GA-713B MICACHARAMICS OF URANIUM DIOKIDE MICACHARAMICS OF URANIUM DIOKIDE MICACHARAMICS IN PULL MAPO-M-913 EVOLUTION FROM SLIGHTLY IRRADIATED ZIRCONIA-URANIA PLATES MAG-1267 MAG-1279 MAG-	ELECTRIC CONDUCTIVITY AND THERMOELECTRIC POWER OF NEARLY STOICHIOMETRIC URANIUM DIOXIDE AT 25 TO	PLUTONIUM OXIDE/URANIUM OXIDE CERAMIC FUELS
JARRADIATION SCHAPION OF BERYLLIUM CXIGO-WARATION DIOLITIC MULCERS FOUR AS PUNCTION OF PUEL MG3-1279 (RG-418) 2,122 (RG-418) 2	WAPD-270 N63-19295 18-25	
GA-4138 - MAGNIADRESS OF URANIUM DIOXIDE MH-77799 MAGNITION PROM SLIGHTLY TRRADIATED ZIRCONIA-MERNIA PLATES MAPO-TH-33 EVOLUTION PROM SLIGHTLY TRRADIATED ZIRCONIA-MERNIA PLATES MAGNITICO PULSE SMACING - ELIRINATING FUEL- CLADOING MANEURS 19 FUEL RODS OF URANTUM DIOXIDE PELLETS MAS-22673 Z3-25 FAST REACTOR FUEL CYCLE COSTS AND TEMPERATUME COFFFICIENTS OF PEACTIVETY FOR PULTORING DIOXIDE STAINLESS STEEL CYCLE COSTS AND TEMPERATUME COFFFICIENTS OF PEACTIVETY FOR PULTORING DIOXIDE STAINLESS STEEL SEPLUTORIUM-URANTUM DIOXIDE STAINLESS STEEL SEPLUTORIUM-URANTUM HORDICES THANDA-133 MAGNITION STIPE FUEL MAGNITUM CORD PULSE HASTING OF ZIRCONTUM-URANTUM HYDRIDES PULSE HASTING OF ZIRCONTUM-URANTUM HYDRIDES PULSE HASTING OF ZIRCONTUM-URANTUM HYDRIDES CLADOING URANIUM OXIDE FUEL ELERENTS MITH BERYLLIUM BY GAS-PRESSURE BONDING CLADOING URANIUM OXIDE FUEL ELERENTS MITH BERYLLIUM BY GAS-PRESSURE BONDING CLADOING URANIUM OXIDE FUEL ELERENTS MITH BERYLLIUM BY GAS-PRESSURE BONDING MAGNITION STIPE FUEL ELERENTS MITH BERYLLIUM BY GAS-PRESSURE BONDING COPRECIPITATION, COEVAPORATION, CORMINITION PROCESSES FOR FABRICATION SITEMED ZIRCONIA-MANIA RAS-11930 COPPETITION OF EMBRICATION SITEMED ZIRCONIA-MANIA RAS-11930 COPPETITION OF EMBRICATION OF COMMINION BY X-MAY PULUMESCENCE MAGNITICATE MAGNITUM CXIDE COMPATIBILITY OF POLITEM URANIUM OXIDE WITH REFRACTION OF TEMPERATUME MAGNITUM CXIDE COMPATIBILITY OF POLITEM URANIUM OXIDE WITH REFRACTION OF CHARLEST OR MAGNITUM OXIDE WITH REFRACTION OF CHARLEST OR MAGNITUM OXIDE WITH REFRACTION OF MAIL BERNAYIOR OF ZIRCONIA-MANIA MAGNITUM CXIDE COMPATIBILITY OF FUEL ELERENTS MAGNITUM OXIDE MAGNITUM CXIDE COMPATIBILITY OF PROBLEM WITH OXIDE MAGNITUM CXIDE COMPATIBILITY OF TYPE 302-8 STAINLESS STEEL MITH OXIDE-STAINLESS STEEL SOLUTIONS BY X-MAY PULDRISHED STAINLESS STEEL SOLUTI	DIOXIDE NUCLEAR FUEL AS A FUNCTION OF FUEL	DP-814 N63-15557 12-15
MUCLEAR PROPERTIES OF URANIUM OXIDE LATTICES MAPO-TR-33 EVOLUTION FROM SLIGHTLY IRRADIATED MAPO-TR-33 EVOLUTION FROM SLIGHTLY IRRADIATED MAPO-TR-33 ENCLUTIOR FROM SLIGHTLY IRRADIATED MAPO-TR-33 ENCLUTIOR FOR MARKING SIDE COMPOSITIONS PHANE MAPO-TR-33 MAS-SR-2263 MAS-22673 MAS-22675 MAS-22673	GA-4138 N63-19299 18-23	ABSORPTION IN URANIUM DXIDE LATTICES - THERMAL ACTIVATION METHOD
ZHEONIA-TASIS EVOLUTION FROM SLIGHTLY TRADIATED ZIRCONIA-QUARTAL PALETS MACHETIC PULSE SWAGING - ELIMINATING FUEL- CLADOING ANNULUS IN FUEL RODS OF URANTUM THAN PARTIES MACHETIC PULSE SWAGING - ELIMINATING FUEL- CLADOING ANNULUS IN FUEL RODS OF URANTUM THAN PARTIES MACHETIC PULSE SWAGING - ELIMINATING FUEL- CLADOING ANNULUS IN FUEL RODS OF URANTUM THAN PARTIES MACHETIC PULSE SWAGING - ELIMINATING FUEL- CLADOING ANNULUS IN FUEL RODS OF URANTUM THAN PARTIES MACHETIC PULSE SWAGING - ELIMINATING FUEL- CLADOING ANNULUS IN FUEL RODS OF URANTUM PARTIES MACHETIC PULSE SWAGING - ELIMINATING FUEL- CLADOING ANNULUS IN FUEL RODS OF URANTUM PARTIES MACHETIC PULSE SWAGING - ELIMINATING FUEL- CLADOING ANNULUS IN FUEL RODS OF URANTUM PARTIES MACHETIC PULSE SWAGING - ELIMINATING FUEL- CLADOING ANNULUS IN FUEL RODS OF URANTUM PARTIES MACHETIC PULSE SWAGING - ELIMINATING FUEL- CLADOING ANNULUS IN FUEL RODS OF URANTUM PARTIES MACHETIC PULSE SWAGING - ELIMINATING PARTIES MACHETIC PULSE SWAGING - ELIMINATING FUEL- CLADOING ANNULUS IN FUEL RODS OF URANTUM PARTIES MACHETIC PULSE SWAGING - ELIMINATING FUEL- CLADOING ANNULUS COLOR STANDARD PARTIES MACHETIC PULSE SWAGING - ELIMINATING FUEL- CLADOING ANNULUS COLOR ESTABLE PULSE MACHETIC PULSE SWAGING - ELIMINATING PARTIES MACHETIC PULS SWAGING - ELIMINATING PARTIES MACHETIC PULSE SWAGING - ELIMINATING PARTIES MACHETIC PULS SWAGING - ELIMINATING PARTIES MACHETIC PULS SWAG	HICKUMARDNESS OF ORANIOM DIOXIDE	048-2100 H03-11449 13-23
MACHETIC PUSSE SMAGING — ELINIMATING FIGE— CLADOTING ANNRULUS IN FUEL RODS OF URANIUM DIOXIDE PELLETS NAM-SR-8263 M69-22675 M69-22675 M69-22675 M69-22675 M69-22675 M69-22675 M69-22675 M69-22732 M69-22		MODERATED BY HEAVY WATER
MACHETIC PULSE SMAGING— ELINIATING FUEL— CLADOING ANNULUS IN PUEL ROODS OF HEARINIUM DIAA—SR-8263 ST M33-22475 23-26 FAST REACTOR FUEL CYCLE COSTS AND TEMPERATURE COFFICERETS OF REACTIVITY FOR PULDO DIOTOR SYSTEM APPORTS STEER E PLUTONIUM—HAM MAN—22732 23-23 DENSITY OF MARITUM DIOXIDE AT GIVEN HEAT E CHANGE RADIOGRAPH MN—75148 M33-22792 WIGH TEMPERATURE MN—75148 M33-22794 23-29 PULSE MEATING OF ZIRCONTUM—URANIUM TOVOIDES MAS—3R—77998 M33-2296 23-19 PULSE MEATING OF ZIRCONTUM—URANIUM HOVOIDES MAS—3R—77999 M33-2295 05-19 PULSE MEATING OF ROOTFIED ZIRCONTUM—URANIUM MYDRIDES TO DESTRUCTION M33-13034 07-26 WANTHUM DIAGE WANTHUM DIAGE MANTHUM DIAGE M		TI-12 FARELINA
MAA-SR-8263 MAS-22075 23-26 FAST REACTOR FYEEL CYCLE COSTS AND TEMPERATURE COFFECTEURS OF REACTIVITY OF RELIGIOUME DIOXIDE SYSTEM APPOR-154 APPOR-154 DENSITY OF UNANIUM DIOXIDE AT GIVEN HEAT E CHANGE HADDOLUME ON NELTING MEASURED BY MIGH TEMPERATURE HADDOLUM-UNANIUM HYDRIDES MAA-SA-7379 URANIUM HYDRIDE PULSE HEATING OF FIRE ELEMENTS MITH BERVILLUM BY GAS-PRESSURE BONDING MIGH LABOUR CLADDING URANIUM OXIDE FUEL ELEMENTS MITH BERVILLUM BY GAS-PRESSURE BONDING MAS-10747 02-18 MS-11939 04-23 MNS-12199 MNS-12199 04-23 MNS-12199 MNS-12199 04-23 MNS-12199 MNS-12199 04-23 MNS-12199 MNS-1219	CLADDING ANNULUS IN FUEL RODS OF URANIUM	RELATIONSHIPS, VOLATILITY, CRYSTAL STRUCTURE, & APPLICATIONS AS REACTOR MATERIAL
FAST REACTOR FUEL CYCLE COSTS AND TERFERATURE COFFFICIENTS OF REACTIVITY FOR PUIDTNITH DIOXIDE— STATINLESS STEEL & PLUTONIUM—UNANHUM HYDRIDES NAA—SR—7398 NG3—22964 23—19 UNANHUM HYDRIDES NAA—SR—7398 NG3—22964 23—19 UNANHUM HYDRIDES NAA—SR—7398 NG3—12935 05—19 NG3—12935 05—19 NUSE HEATING OF FOODIFIED ZIRCONIUM—UNANHUM HYDRIDES TO DESTRUCTION NG3—12034 07—26 CLAPOTHING UNANHUM CONTRIBUTION NG3—12034 07—26 CLAPOTHING UNANHUM DIOXIDE—UNANHUM HYDRIDES TO DESTRUCTION NG3—1047 02—18 NG3—11939 04—23 NG3—12039 04—23 NG3—	DIOXIDE PELLETS	
DENSITY OF URANIUM DIOXIDE AT GIVEN HEAT E CHANGE IN VOLUME ON HELTING HEASUARD BY HIGH TEMPERATURE WIN-751-48 N63-22964 23-19 URANIUM HYDRIDE PULSE HEATING OF ZIRCONIUM-URANIUM HYDRIDES NA-3R-7398 N63-1235 05-19 PULSE HEATING OF MODIFIED ZIRCONIUM-URANIUM HYDRIDES NA-3R-7398 N63-1235 05-19 PULSE HEATING OF MODIFIED ZIRCONIUM-URANIUM HYDRIDES NA-3R-7398 N63-1235 05-19 URANIUM OXIDE CLADOTING URANIUM DIDE FUEL ELEMENTS WITH CALL OF THE FEARORGANETIC MATERIALS N63-1230 05-10 URANIUM OXIDE CLADOTING URANIUM DIDE FUEL ELEMENTS WITH CLAD THE FEARORGANETIC MATERIALS N63-1230 05-10 EMBI-1602 BY GAS-PRESSURE BONDING N63-10747 02-18 URANIUM OXIDE CLADOTING URANIUM OXIDE FUEL ELEMENTS WITH PLATES COPPECIPITATION, COEVAPORATION, COMMINUTION PROCESSES FOR FABRICATION, COMMINUTION OX N63-11940 04-23 PLUTONIUM OXIDE - URANIUM OXIDE TESTS N63-12307 05-07 PREPARACTORY METALS N63-12933 05-19 DETERMINATION OF DITEN URANIUM DIXIDE WITH REFRACTORY METALS N63-12303 05-19 DETERMINATION OF EMBICHED URANIUM OXIDE TESTS N63-12303 05-19 DETERMINATION OF EMBICHED URANIUM OXIDE RELATED TO CRAYSTALLINE STRUCTURE N63-12493 06-07 THERMOCONDUCTIVITY OF HOLTEN URANIUM OXIDE TESTS NEUTRON TENERGY SPECTRA FROM URANIUM 235, N63-12493 06-07 THERMOCONDUCTIVITY OF HOLTEN URANIUM OXIDE TESTS NEUTRON TENERGY SPECTRA FROM URANIUM 235, N63-12493 06-07 THERMOCONDUCTIVITY OF HOLTEN URANIUM OXIDE TESTS NEUTRON TENERGY SPECTRA FROM URANIUM 235, N63-12493 06-07 THERMOCONDUCTIVITY OF HOLTEN URANIUM OXIDE TESTS NEUTRON TENERGY SPECTRA FROM URANIUM 235, N63-12493 06-07 THERMOCONDUCTIVITY OF HOLTEN URANIUM OXIDE TESTS N63-12493 06-07 THERMOCONDUCTIVITY OF HOLTEN URANIUM OXIDE TESTS N63-12493 06-07 THERMOCONDUCTIVITY OF HOLTEN URANIUM OXIDE TESTS N63-12493 06-07 THERMOCONDUCTIVITY OF THE TESTS OF THE TESTS NOT PROBLEMANIUM 235 N63-12493 06-07 THERMOCONDUC	COEFFICIENTS OF REACTIVITY FOR PLUTONIUM DIOXIDE-	FUNCTION OF TEMPERATURE AND PARTIAL PRESSURE OF OXYGEN
DENSITY OF URANIUM POIDXIDE AT GIVEN HEAT E CHANGE IN VOLUME ON MELTING MEASURED BY HIGH TEMPERATURE BAIL-1638 IN VOLUME ON MELTING MEASURED BY HIGH TEMPERATURE BAIL-1638 MAS-32964 WASHIUM SUIFIDE PULSE HEATING OF PRODIFIED ZIRCONIUM-URANIUM HYDRIDES NAS-SR-77308 MAS-38-7398 MAS-12155 MAS-12155 MAS-12155 MAS-17398 MAS-17399 MAS-17398 MAS-		ATTENDOMETRING THE BOTHLE BOTTSTAR SOLDER WITH
URANIUM HYDRIDE PULSE HEATING OF ZIRCONIUM-URANIUM HYDRIDES MAG-58-7398 M63-12155 M63-12166 M63-13034 M63-13034 M63-13034 M63-13034 M63-13034 M63-1218 M	IN VOLUME ON MELTING MEASURED BY HIGH TEMPERATURE	RADIATION STABILITY OF URANIUM MONONITRIDE
PULSE HEATING OF ZIRCONIUM-URANIUM HYDRIDES NAS-SR-7398 NAS-TIZISS 05-19 PULSE HEATING OF MODIFIED ZIRCONIUM-URANIUM HYDRIDES TO DESTRUCTION NAS-13034 07-26 PULSE HEATING OF MODIFIED ZIRCONIUM-URANIUM HYDRIDES TO DESTRUCTION NAS-13034 07-26 URANIUM GXIDE CLADDING URANIUM OXIDE FUEL ELEMENTS WITH BERYLLIUM BY GAS-PRESSURE BONDING BHI-1602 NAS-10747 02-18 COPPECIPITATION, CREWAPDRATION, COMMINUTION PROCESSES FOR FABRICATING SINTERED ZIRCONIAWRANIA NAS-11940 04-23 PLATES NAS-TINED THE LEMENTS NEED AND AS-12097 05-07 COMPATIBILITY OF MOLTEN URANIUM OXIDE WITH REFRACTION HELD NAS-1239 05-19 DETERMINATION OF ENRICHED URANIUM IN URANIUM RAS-1239 05-19 DETERMINATION OF ENRICHED URANIUM IN URANIUM NAS-1244S 06-07 THERMOCOMOUTIVITY OF IRRADIATED & MONIRRADIATED, SINTERED ZIRCONUTY OF PROCESSES FOR PROPERTY OF THE MODIFICATION FLUX NAS-12493 06-07 THERMOCOMOUTIVITY OF IRRADIATED & MONIRRADIATED, SINTERED & NOSINTERED URANIUM OXIDE RELATED TO CRYSTALLINE STRUCTURE NAS-12493 07-18 URANIUM 233 AND PLUTONIUM 239 NAS-1250 06-07 THERMOCOMOUTIVITY OF IRRADIATED & MONIRRADIATED, SINTERED ZIRCONIUM OXIDE RELATED TO CRYSTALLINE STRUCTURE NAS-12493 05-19 URANIUM 233 AND PLUTONIUM 239 NAS-1250 06-07 THERMOCOMOUTIVITY OF IRRADIATED & MONIRRADIATED, SINTERED & MONIRRADIATED, SINTERED & MONIRRADIATED, SINTERED & MONIRRADIATED, SINTERED ZIRCONIUM OXIDE RELATED TO CRYSTALLINE STRUCTURE NAS-12493 05-19 URANIUM 233 AND PLUTONIUM 239 NAS-1250 06-07 THERMOCOMOUTIVITY OF IRRADIATED & MONIRRADIATED, SINTERED ZIRCONIUM OXIDE RELATED TO CRYSTALLINE STRUCTURE NAS-12493 06-07 THE MODIFICATION OF PROPERTY OF THE MERCY OF THE MODIFICATION OF PROPERTY OF THE MODIFI	HW-75148 N63-22964 23-19	
PULSE HEATING OF ZIRCONIUM-URANIUM NOSTIDES NAB-SA-7390 NOS-12705 05-19 PULSE HEATING OF MODIFIED ZIRCONIUM-URANIUM HORRIDES TO DESTRUCTION NAB-3A-7736 NOS-12034 07-26 PULSE HEATING OF MODIFIED ZIRCONIUM-URANIUM HORRIDES TO DESTRUCTION NAS-313034 07-26 PURANIUM OXIDE CLADDING URANIUM OXIDE FUEL ELEMENTS WITH BERYLLIUM BY GAS-PRESSURE BONDING MINI-1602 COPRECIPITATION, COEVAPORATION, COMMINUTION PROCESSES FOR FABRICATING SINTERED ZIRCONIA-URANIA NAS-11339 04-23 IRRADIATION DEHAVIOR OF ZIRCONIUM OXIDE-URANIUM OXIDE FUELS PLUTONIUM OXIDE — URANIUM OXIDE TESTS NAS-12007 05-07 COMPATIBILITY OF MOLTEN URANIUM DIOXIDE WITH REFRACTIONY METALS NAS-TM-D-1442 NAS-1293 05-19 DETERMINATION OF EMPLICHED URANIUM IN URANIUM OXIDE-STAINLESS STEEL SOLUTIONS BY X-RAY PLUDRESCENCE THERMOCONDUCTIVITY OF IRRADIATED & NONIRRADIATED, SINTERED & NOSINIFERED URANIUM OXIDE RELATED TO CRYSTALINES STEEL SOLUTIONS BY X-RAY PLUDRESCENCE THERMOCONDUCTIVITY OF IRRADIATED & NOBITADA AND NICESCENCE URANIUM-233 NO PLUTONIUM 239 NOB-11390 14-21 COMPATIBILITY OF TYPE 302-B STAINLESS STEEL WITH OXIDES OF PLUTONIUM AND URANIUM, AND WITH SILICON AND NICESCENCE URANIUM-233 NO PLUTONIUM 239 NOB-11390 14-21 DECAY OF URANIUM-235 FISSION PRODUCTS NOB-20463 20-21 URANIUM-233 NOB PLUTONIUM 239 NOB-11390 14-21 DECAY OF URANIUM-235 NOB-12495 NOB-1	URANIUM HYDRIDE	MAGNETORESISTANCE OF URANIUM MONOSULFIDE WITH
WANTUM GXIDE CLADDING URANIUM CXIDE FUEL ELEMENTS NITH BERYLLIUM BY GAS-PRESSUME BONDING BNI-1602 NOS-10747 02-18 COPPECIPITATION, COEVAPORATION, COMMINITION PROCESSES FOR FABRICATING, COUNTIUM GXIDE TESTS NOS-11939 NOS-1207 COMPATIBILITY OF MOLTEN URANIUM DIDITOR REFACTORY PETALS NOS-1207 DETERMINATION OF ENRICHED URANIUM IN URANIUM OXIDE-STAINLESS STEEL SOLUTIONS BY X-RAY PLUMESSES FOR FABRICATION, COUNTING PUBLICANIUM OXIDE-STAINLESS STEEL SOLUTIONS BY X-RAY PLUMESSES FOR FABRICATION, COMMINIUM OXIDE TESTS NOS-1207 COMPATIBILITY OF MOLTEN URANIUM DIDITOR WAS-1207 DETERMINATION OF ENRICHED URANIUM IN URANIUM OXIDE-STAINLESS STEEL SOLUTIONS BY X-RAY PLUMESSEME BONDING OXIDE-STRINLESS STEEL SOLUTIONS BY X-RAY PREPARATION OF EPITHERMAL URANIUM-235 FISSION OXIDAL-375 NORMALIZATION OF EPITHERMAL URANIUM-235 FISSION CROSS SECTION URANIUM-233 URANIUM-233 URANIUM-233 URANIUM-233 URANIUM-233 NOS-17197 15-19 URANIUM-235 NOS-	PULSE HEATING OF ZIRCONIUM-URANIUM HYDRIDES	
CLADDING URANIUM OXIDE FUEL ELEMENTS NITH BERYLLIUM BY GAS-PRESSURE BONDING BHI-1602 COPRECIPITATION, COEVAPORATION, COMMINUTION PROCESSES FOR FABRICATING SINTERED ZIRCONIA-URANIA PLATES IRRADIATION BEHAVIOR OF ZIRCONIUM OXIDE-URANIUM OXIDE FUELS M63-11940 04-23 PLUTONIUM OXIDE - URANIUM OXIDE TESTS NM-71232 COMPATIBILITY OF MOLTEN URANIUM DIOXIDE WITH REFRACTORY METALS NASA-TN-D-1442 DETERMINATION OF EMRICHED URANIUM IN URANIUM OXIDE-STAINLESS STEEL SOLUTIONS BY X-RAY FLUORESCENCE THERMOCOMOUCTIVITY OF IRRADIATED & MO3-12455 COMPATIBILITY OF TYPE 302-B STAINLESS STEEL WITH OXIDE-STAINLESS STEEL SOLUTIONS BY X-RAY FLUORESCENCE N63-12454 COMPATIBILITY OF TYPE 302-B STAINLESS STEEL WITH OXIDE-STAINLESS STEEL SOLUTIONS BY X-RAY FLUORESCENCE THERMOCOMOUCTIVITY OF IRRADIATED & MO3-12454 COMPATIBILITY OF TYPE 302-B STAINLESS STEEL WITH OXIDE-SOUTH POTASSIUM SLURRY FOR REACTOR FUEL AML-6646 M63-13025 O7-18 M63-13046 M63-13046 M63-13046 M63-13046 M63-13066 M63-13077 M63-13066 M63-13066 M63-13077 M63-13066 M63-13077 M63-13066 M63-13077 M63-12450 M63-13077 M63-12450 M63-13077 M63-12450 M63-	HYDRIDES TO DESTRUCTION	TRANSURANIUM ELEMENTS - EXTRACTION, HIGH FLUX ISOTOPE REACTOR TARGET FABRICATION, CORROSION, AND
CLADDING URANIUM OXIDE FUEL ELEMENTS NITH BERYLLIUM BY GAS-PRESSURE BONDING BMI-1602 COPRECIPITATION, COEVAPORATION, COMMINUTION PROCESSES FOR FABRICATING SINTERED ZIRCONIA-URANIA PLATES IRRADIATION BEHAVIOR OF ZIRCONIUM OXIDE-URANIUM OXIDE FUELS PLUTONIUM OXIDE - URANIUM OXIDE TESTS M63-11990 COMPATIBILITY OF MOLTEN URANIUM DIOXIDE WITH REFRACTORY METALS NASA-TH-O-1442 DETERMINATION OF ENRICHED URANIUM IN URANIUM OXIDE-STAINLESS STEEL SOLUTIONS BY X-RAY PLUTORESCENCE NG-12445 COMPATIBILITY OF TYPE 302-B STAINLESS STEEL WITH OXIDE-STAINLESS STEEL SOLUTIONS BY X-RAY PLUTORESCENCE NG-12993 COMPATIBILITY OF TYPE 302-B STAINLESS STEEL WITH OXIDES OF PLUTONIUM AND WITH SILICON AND NICKEL LA-2828 MAS-12949 OFTERMINATION OF BRACIORS NG3-12449 MG3-12459 OFTERMINATION OF BRACIORS NG3-12449 MG3-12459	URANIUM OXIDE	
CORRECTPITATION, COEVAPORATION, COMMINUTION PROCESSES FOR FABRICATING SINTERED ZIRCONIA—URANIA PLATES IRRADIATION BEHAVIOR OF ZIRCONIUM OXIDE-URANIUM OXIDE FUELS IRRADIATION BEHAVIOR OF ZIRCONIUM OXIDE-URANIUM OXIDE FUELS PLUTONIUM OXIDE - URANIUM OXIDE TESTS HM-71232 COMPATIBILITY OF MOLTEN URANIUM DIOXIDE WITH REFRACTORY METALS N63-1293 05-19 DETERMINATION OF ENRICHED URANIUM IN URANIUM OXIDE FLAMED TO CRYSTALLINE STRUCTURE ANALYSIS OF FUEL ELEMENTS CONTAINING URANIUM-235 MO3-12439 06-07 THERMOCONDUCTIVITY OF IRRADIATED & NONIRRADIATED, SINTERED & NONSINTERED URANIUM OXIDE RELATED TO CRYSTALLINE STRUCTURE HM-6995 URANIUM OXIDE-SODIUM POTASSIUM SLURRY FOR REACTOR FUEL ANG-6644 N63-13025 URANIUM OXIDE-SODIUM POTASSIUM SLURRY FOR REACTOR FUEL ANG-6644 N63-13025 URANIUM-233 INCREASING NEUTRON ACTIVATION OF URANIUM-235 BY INCREASING NEUTRON ACTIVATION OF URANIUM-235 BY INCREASING NEUTRON FLUX N63-1293 05-19 POSSIBILITY OF PONDESTRUCTIVE ANALYSIS OF FUEL ELEMENTS CONTAINING URANIUM-235 EUR-248.F INCREASING NEUTRON ENERGY SPECTRA FROM URANIUM 235, URANIUM-235 EUR-248.F INCREASING NEUTRON ENERGY SPECTRA FROM URANIUM 235, URANIUM-235 EUR-248.F POSSIBILITY OF PONDESTRUCTIVE ANALYSIS OF FUEL ELEMENTS CONTAINING URANIUM-235 EUR-248.F INCREASING NEUTRON ACTIVATION OF URANIUM-235 EUR-248.F INCREASING NEUTRON ACTIVATION OF URANIUM-235 BY INCREASING NEUTRON FLUX N63-12439 06-07 POSSIBILITY OF PONDESTRUCTIVE ANALYSIS OF FUEL ELEMENTS CONTAINING URANIUM-235 EUR-248.F INCREASING NEUTRON ACTIVATION OF URANIUM-235 NOA-116500 14-29 POSSIBILITY OF PONDESTRUCTIVE ANALYSIS OF FUEL ELEMENTS CONTAINING URANIUM-235 NOA-11670 14-29 URANIUM-233 AND PLUTONIUM 239 NOA-12439 06-07 DECEMPTANT OF PONDESTRUCTIVE ANALYSIS OF FUEL ELEMENTS CONTAINING URANIUM-235 N63-16500 14-29 POSSIBILITY OF PONDESTRUCTIVE ANALYSIS OF FUEL ELEMENTS ONA-11797 15-19 DECAY OF URANIUM-235 NOA-11797 15-19 DECAY OF URANIUM-235 PROTOCOLOR OF THE ELEMENTS ONA-11797 15-19 DECAY OF URANIUM-235 PROTOCOLOR OF THE ELEMENTS ONA-11797 15-19 DE	CLADDING URANIUM OXIDE FUEL ELEMENTS WITH BERYLLIUM BY GAS-PRESSURE BONDING	NORMALIZATION OF EPITHERMAL URANIUM-235 FISSION CROSS SECTION
PROCESSES FOR FABRICATING SINTERED ZIRCONIA-URANIA PLATES NAS-11939 04-23 FISSION NEUTRON ENERGY SPECTRA FROM URANIUM 235, URANIUM 233 AND PLUTONIUM 239 N63-17197 15-13 URANIUM-235 PLUTONIUM OXIDE - URANIUM OXIDE TESTS N63-12007 05-07 COMPATIBILITY OF MOLTEN URANIUM DIOXIDE WITH REFRACTORY METALS NASA-TN-D-1442 DETERMINATION OF ENRICHED URANIUM IN URANIUM OXIDE REATED TO CRYSTALLINE STRUCTURE N63-1245 N63-1245 COMPATIBILITY OF TYPE 302-B STAINLESS STEEL WITH OXIDES OF PLUTONIUM AND MITCHELL A-2828 URANIUM-235 MEUTRON ACTIVATION OF URANIUM-235 BY INCREASING NEUTRON FLUX POSSIBILITY OF NONDESTRUCTIVE ANALYSIS OF FUEL ELEMENTS CONTAINING URANIUM-235 EUR-248.F FISSION NEUTRON ENERGY SPECTRA FROM URANIUM-235 NEUTRON ACTIVATION OF URANIUM-235 BY INCREASING NEUTRON HUXON OF URANIUM-235 NEUTRON ACTIVATION OF URANIUM-235 BY INCREASING NEUTRON HUXON OF URANIUM-235 NEUTRON ACTIVATION OF URANIUM-235 NEUTRON ACTIVATION OF URANIUM-235 NEUTRON ACTIVATION OF URANIUM-235 NEUTRON ELUX NEUTRON FLUX POSSIBILITY OF NONDESTRUCTIVE ANALYSIS OF FUEL ELEMENTS CONTAINING URANIUM-235 NEUTRON FLUX NEG-1650 NEUTRON ACTIVATION OF URANIUM-235 NEUTRON HUX POSSIBILITY OF NONDESTRUCTIVE ANALYSIS OF FUEL ELEMENTS CONTAINING URANIUM-235 NEUTRON FLUX NEG-1650 NEUTRON FLUX NEG-1650 NEUTRON ACTIVATION OF URANIUM-235 NEUTRON ACTIVATION OF URANIUM-235 NEUTRON FLUX NEG-1650 NEUTRON FLUX NEG-1650 NEUTRON FLUX NEG-1650 NEUTRON ACTIVATION OF URANIUM-235 NEUTRON FLUX NEG-1650 NEUTRON ACTIVATION OF URANIUM-235 NEUTRON FLUX NEG-1650 NEUTRON FLUX NEG-1650 NEUTRON ACTIVATION OF URANIUM-235 NEUTRON FLUX NEG-1650 NEUTRON ACTIVATION OF URANIUM-235 NEUTRON ACTIVATION O	COPRECIPITATION, COEVAPORATION, COMMINUTION	
IRRADIATION BEHAVIOR OF ZIRCONIUM OXIDE—URANIUM OXIDE FUELS N63-12007 05-07 COMPATIBILITY OF MOLTEN URANIUM DIOXIDE WITH REFRACTORY METALS NASA-Th-D-1442 N63-12193 05-19 OETERMINATION OF ENRICHED URANIUM IN URANIUM OXIDE—STAINLESS STEEL SOLUTIONS BY X-RAY FLUORESCENCE N63-1245 06-07 THERNOCONDUCTIVITY OF IRRADIATED & NONIRRADIATED, SINTERED & NONIRRADIATED, CRYSTALLINE STRUCTURE HM-69945 N63-12454 06-23 COMPATIBILITY OF TYPE 302-B STAINLESS STEEL WITH OXIDES OF PLUTONIUM AND MITH SILICON AND HICKEL ANL-2628 N63-12999 07-18 URANIUM OXIDE-SODIUM POTASSIUM SLURRY FOR REACTOR FUEL ANL-6644 N63-13025 07-26 RADIATION EFFECTS ON PLATE—TYPE URANIUM OXIDE REACTOR FUEL URANIUM OXIDE-SODIUM POTASSIUM SLURRY FOR REACTOR FUEL NAS-13066 07-18 LAMS-2883 N63-17197 15-13 URANIUM-235 NEUTRON ACTIVATION OF URANIUM-235 BY INCREASING N63-12439 06-07 POSSIBILITY OF NONDESTRUCTIVE ANALYSIS OF FUEL ELEMENTS CONTAINING URANIUM-235 N63-16560 14-25 URANIUM-233 AND PLUTONIUM 239 LAMS-2883 N63-17197 15-13 URANIUM-235 N63-16560 14-25 URANIUM-235 N63-16560 14-25 URANIUM-235 N63-16560 14-25 UREA DECAY OF URANIUM 235 FISSION PRODUCTS ANC-RR-TR-63-11 UREA DECAY OF URANIUM 235 F	PROCESSES FOR FABRICATING SINTERED ZIRCONIA-URANIA	FISSION NEUTRON ENERGY SPECTRA FROM URANIUM 235,
PLUTONIUM OXIDE - URANIUM OXIDE TESTS N63-12007 05-07 COMPATIBILITY OF MOLTEN URANIUM DIOXIDE WITH REFRACTORY METALS NASA-TN-D-1442 N63-12193 05-19 DETERMINATION OF EMRICHED URANIUM IN URANIUM OXIDE-STAINLESS STEEL SOLUTIONS BY X-RAY FLUORESCENCE N63-12445 06-07 THERMOCONDUCTIVITY OF IRRADIATED & NONIRRADIATED, SINTERED & NONSINTERED URANIUM OXIDE RELATED TO CRYSTALLINE STRUCTURE HW-69945 N63-12454 06-23 URANIUM OXIDE-SODIUM POTASSIUM SLURRY FOR REACTOR FUEL ANL-6046 N63-13025 07-26 RADIATION EFFECTS ON PLATE-TYPE URANIUM OXIDE REACTOR FUEL ELEMENT WAPD-TW-332 N63-13066 07-18 URANIUM OXIDE-SODIUM POTASSIUM SLURRY FOR REACTOR FUEL ANL-6631 N63-13066 07-18 URANIUM OXIDE-SODIUM POTASSIUM SLURRY FOR REACTOR FUEL ANL-6631 N63-13066 07-18 URANIUM OXIDE-SODIUM POTASSIUM SLURRY FOR REACTOR FUEL ANL-6631 N63-13066 07-18 URANIUM OXIDE-SODIUM POTASSIUM SLURRY FOR REACTOR FUEL ANL-6631 N63-13066 07-18 URANIUM OXIDE-SODIUM POTASSIUM SLURRY FOR REACTOR FUEL ANL-6631 N63-13066 07-18 URANIUM OXIDE-SODIUM POTASSIUM SLURRY FOR REACTOR FUEL ANL-6631 N63-13066 07-18 URANIUM OXIDE FECTS ON PLATE-TYPE URANIUM OXIDE AND OXIDES OF PLUTONIUM AND URANIUM OXIDE UNDER UNIXAYIM COMPRESSION N63-11430 03-19 URETHANE SAPOTATION OF UNANIUM-235 BY INCREASING NEUTRON FUEL CELLS ANG-71197 15-19 URETHANE SAPOTATION OF BLOOD URANIUM-235 BY INCREASING N63-12439 06-01 URETHANE SAPOTATION EMERCY SPECTRA FROM URANIUM 235, URANIUM 233 AND PLUTONIUM 239 N63-17197 15-19 URETHANE SAPOTATION OF BLOOD URANIUM 235 FISSION PRODUCTS ANC-RR-TR-63-11 N63-20463 20-29 URETHANE SAPOTATION OF BLOOD UREA COUNT OUT ING PERIODIC N63-12459 06-07 BECAY OF URANIUM 235 FISSION PRODUCTS ANC-RR-TR-63-11 N63-20463 20-29 UREA URETHANE SAPOTATION OF BLOOD UREA COUNT OUT ING PERIODIC N63-12459 06-07 BECAY OF URANIUM 235 FISSION PRODUCTS ANC-RR-TR-63-11 N63-20463 20-29 UREA URETHAN BACILLUS PASTEURITION OF DIABORATION OF PLUTONIUM 235 N63-17197 15-19 URETHANC SAPOTATION OF PRODUCTS ANC-RR-TR-63-11 N63-20463 20-29 URETHANC SAPOTATION OF PRODUCTS ANC-RR-TR		LAMS-2883 N63-17197 15-15
REFRACTORY METALS NASA-TN-D-1442 NASA-TN-D-1443 NASA-TN-D-1442 NASA-TN-D-1443 NASA-TN-D-1442 NASA-TN-D-1443 NAS		NEUTRON ACTIVATION OF URANIUM-235 BY INCREASING
DETERMINATION OF ENRICHED URANIUM IN URANIUM OXIDE-STAINLESS STEEL SOLUTIONS BY X-RAY FLUORESCENCE THERMOCONDUCTIVITY OF IRRADIATED & NONIRRADIATED, SINTERED & NONSINTERED URANIUM OXIDE RELATED TO CRYSTALLINE STRUCTURE HW-69945 COMPATIBILITY OF TYPE 302-B STAINLESS STEEL WITH OXIDES OF PLUTONIUM AND URANIUM, AND MITH SILICON AND HICKEL LA-2828 URANIUM OXIDE-SODIUM POTASSIUM SLURRY FOR REACTOR FUEL ANL-6644 N63-13025 O7-26 RADIATION EFFECTS ON PLATE-TYPE URANIUM OXIDE REACTOR FUEL ELEMENT WAPD-TW-332 URANIUM 233 AND PLUTONIUM 239 LAMS-2883 N63-17197 15-15 DECAY OF URANIUM 235 FISSION PRODUCTS ANC-RR-TR-63-11 N63-20463 20-21 URAN DETERMINATION OF BLOOD UREA COUNT DURING PERIODIC PHYSICAL EXAMINATIONS OF FLIGHT PERSONNEL N63-12993 O7-18 BACILLUS PASTEURII-UREA BIOCHEMICAL FUEL SYNTHESIS OF LOW TEMPERATURE CHEMICAL RESISTANT URETHANE SYNTHESIS OF LOW TEMPERATURE CHEMICAL RESISTANT USING CYLINORICAL, UNFILLED-URETHANE SPECIMENS UNDER UNIAXIAL COMPRESSION N63-11931 04-25 SYNTHESIS OF LOW-TEMPERATURE OIL-RESISTANT	REFRACTORY METALS	ELEMENTS CONTAINING URANIUM-235
OXIDE-STAINLESS STEEL SQLUTIONS BY X-RAY FLUGRESCENCE N63-12445 THERHOCONDUCTIVITY OF IRRADIATED & NONIRRADIATED, SINTERED & NONSINTERED URANIUM OXIDE RELATED TO CRYSTALLINE STRUCTURE HW-69945 COMPATIBILITY OF TYPE 302-8 STAINLESS STEEL WITH OXIDES OF PLUTONIUM AND URANIUM, AND WITH SILICON AND NICKEL LA-2028 N63-12993 O7-18 URANIUM 233 AND PLUTONIUM 239 N63-17197 15-19 DECAY OF URANIUM 235 FISSION PRODUCTS AMC-RR-TR-63-11 N63-20463 20-23 AMC-RR-TR-63-11 N63-20463 06-23 UREA DETERMINATION OF BLOOD UREA COUNT DURING PERIODIC PHYSICAL EXAMINATIONS OF FLIGHT PERSONNEL N63-16217 N63-16217 13-14 BACILLUS PASTEURII-UREA BIOCHEMICAL FUEL CELLS N63-23418 14-24 URETHAME SA POLYURETHAME SANTHESIS OF LOW TEMPERATURE CHEMICAL RESISTANT URETHAME SANTHESIS OF LOW TEMPERATURE CHEMICAL RESISTANT URETHAME SA POLYURETHAME SANTHESIS OF LOW TEMPERATURE CHEMICAL RESISTANT URETHAME SANTHESIS OF LOW TEMPERATURE CHEMICAL RESISTANT URETHAME USING CYLINDRICAL, UNFILLED-URETHAME SPECIMENS UNDER UNTAXIAL COMPRESSION N63-11931 04-21 SYNTHESIS OF LOW-TEMPERATURE OIL-RESISTANT SYNTHESIS OF LOW-TEMPERATURE OIL-RESISTANT	4.104 (300-07-2010) (7.57	
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UREA DETERMINATION OF BLOOD UREA COUNT DURING PERIODIC PHYSICAL EXAMINATIONS OF FLIGHT PERSONNEL NO3-16217 13-14 NO 11 KEEL NO 11	SINTERED & NONSINTERED URANIUM OXIDE RELATED TO	
COMPATIBILITY OF TYPE 302-B STAINLESS STEEL WITH OXIDES OF PLUTONIUM AND URANIUM, AND WITH SILICON AND NICKEL LA-2020 N63-12993 07-18 URANIUM OXIDE-SODIUM POTASSIUM SLURRY FOR REACTOR FUEL ANL-6644 N63-13025 07-26 RADIATION EFFECTS ON PLATE-TYPE URANIUM OXIDE REACTOR FUEL LEMENT WAPD-TM-332 N63-13041 07-26 URANIA-NEODYNIA COMPOSITIONS FOR NUCLEAR FUEL N63-13066 07-18 PHYSICAL EXAMINATIONS OF FLIGHT PERSONNEL N63-12993 07-18 BACILLUS PASTEURII-UREA BIOCHEMICAL FUEL SYNTHESIS OF LOW TEMPERATURE CHEMICAL RESISTANT URETHAME SYNTHESIS OF LOW TEMPERATURE CHEMICAL RESISTANT USING CYLINDRICAL, UMFILLED-URETHAME SPECIMENS UNDER UNIAXIAL COMPRESSION N63-11931 04-25 SYNTHESIS OF LOW-TEMPERATURE OIL-RESISTANT		
URANIUM OXIDE-SODIUM POTASSIUM SLURRY FOR REACTOR FUEL ANL-6644 N63-13025 O7-26 RADIATION EFFECTS ON PLATE-TYPE URANIUM OXIDE REACTOR FUEL ELEMENT WAPD-TM-332 URANIA-NEODYMIA COMPOSITIONS FOR NUCLEAR FUEL N63-13066 O7-18 BACILLUS PASTEURII-UREA BIOCHEMICAL FUEL SA POLYURETHAME SYNTHESIS OF LOW TEMPERATURE CHEMICAL RESISTANT URETHAME SYNTHESIS OF LOW TEMPERATURE CHEMICAL RESISTANT USING CYLINDRICAL, UMFILLED-URETHAME SPECIMENS UNDER UNIAXIAL COMPRESSION N63-11931 O4-25 SYNTHESIS OF LOW-TEMPERATURE OIL-RESISTANT	OXIDES OF PLUTONIUM AND URANIUM, AND WITH SILICON	PHYSICAL EXAMINATIONS OF FLIGHT PERSONNEL
URANIUM OXIDE-SODIUM POTASSIUM SLURRY FOR REACTOR FUEL ANL-6644 N63-13025 O7-26 RADIATION EFFECTS ON PLATE-TYPE URANIUM OXIDE REACTOR FUEL ELEMENT WAPD-TM-332 N63-13041 O7-26 URANIA-NEODYNIA COMPOSITIONS FOR NUCLEAR FUEL N63-13066 O7-18 URETHANE SYNTHESIS OF LOW TEMPERATURE CHEMICAL RESISTANT URETHANE SINDER LONSTEAM URETHANE SYNTHESIS OF LOW-TEMPERATURE CHEMICAL RESISTANT URETHANE SYNTHESIS OF LOW-TEMPERATURE CHEMICAL RESISTANT SYNTHESIS OF LOW-TEMPERATURE CHEMICAL RESISTANT SYNTHESIS OF LOW-TEMPERATURE CHEMICAL RESISTANT		N63-23618 26-26
ANL-6644 N63-13025 O7-26 RADIATION EFFECTS ON PLATE-TYPE URANIUM OXIDE REACTOR FUEL ELEMENT WAPD-TW-332 URANIA-NEODYNIA COMPOSITIONS FOR NUCLEAR FUEL N63-13066 N63-13066 O7-18 URETHAME SYNTHESIS OF LOW TEMPERATURE CHEMICAL RESISTANT URETHAME SYNTHESIS OF LOW TEMPERATURE CHEMICAL RESISTANT URETHAME SYNTHESIS OF LOW-TEMPERATURE CHEMICAL RESISTANT URETHAME SYNTHESIS OF LOW-TEMPERATURE CHEMICAL RESISTANT SYNTHESIS OF LOW-TEMPERATURE CHEMICAL RESISTANT SYNTHESIS OF LOW-TEMPERATURE CHEMICAL RESISTANT URETHAME SYNTHESIS OF LOW TEMPERATURE CHEMICAL RESISTANT URETHAME SYNTHESIS OF LOW-TEMPERATURE CHEMICAL RESISTANT USING CYL INDRICAL, UNFILLED-URETHAME UNDER UNIAXIAL COMPRESSION N63-11931 O4-25 SYNTHESIS OF LOW-TEMPERATURE CHEMICAL RESISTANT USING CYL INDRICAL, UNFILLED-URETHAME SYNTHESIS OF LOW-TEMPERATURE CHEMICAL RESISTANT USING CYL INDRICAL, UNFILLED-URETHAME SYNTHESIS OF LOW-TEMPERATURE CHEMICAL RESISTANT USING CYL INDRICAL, UNFILLED-URETHAME SYNTHESIS OF LOW-TEMPERATURE CHEMICAL RESISTANT OF LOW-TEMPERATURE SYNTHESIS OF LOW-TEMPERATURE CHEMICAL RESISTANT OF LOW-TEMPERATURE SYNTHESIS OF LOW-TEMPERATURE		PERCHASINES MANAGEMENT OF THE WORLD AND AND ASSESSMENT OF THE SECOND
RADIATION EFFECTS ON PLATE-TYPE URANIUM OXIDE REACTOR FUEL ELEMENT WAPD-TW-332 N63-13041 O7-26 URANIA-NEODYNIA COMPOSITIONS FOR NUCLEAR FUEL ANL-6631 N63-13066 O7-18 URETHANE ELASTOMERS N63-11430 O7-18 INTERNAL DISPLACEMENTS IN SOLID-PROPELLANT GRAINS USING CYLINDRICAL, UNFILLED-URETHANE SPECIMENS UMDER UNIAXIAL COMPRESSION N63-11931 O4-21 SYNTHESIS OF LOW-TEMPERATURE OIL-RESISTANT	FUEL	SA POLYURETHANE
REACTOR FUEL ELEMENT WAPD-TM-332 URANIA-NEODYMIA COMPOSITIONS FOR NUCLEAR FUEL ANL-6631 N63-13066 N63-13066	RADIATION EFFECTS ON PLATE-TYPE URANIUM OXIDE	
URANIA-MEDDYMIA COMPOSITIONS FOR NUCLEAR FUEL M63-13066 07-18 USING CYLINDRICAL, UNFILLED-URETHANE SPECIMENS UNDER UNIAXIAL COMPRESSION N63-11931 04-21 SYNTHESIS OF LON-TEMPERATURE OIL-RESISTANT	REACTOR FUEL ELEMENT	INTERNAL DISPLACEMENTS IN SOLID-PROPELLANT GRAINS
SYNTHESIS OF LOW-TEMPERATURE OIL-RESISTANT	URANIA-NEODYNIA COMPOSITIONS FOR NUCLEAR FUEL	USING CYLINDRICAL, UNFILLED-URETHANE SPECIMENS UNDER UNIAXIAL COMPRESSION N63-11931 04-21
	A STATISTICAL DEPOSITION FOR THAT HE SEE THE STATE OF THE	

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70

SYNTHESIS OF LOW TEMPERATURE OIL RESISTANT URETHANE ELASTOMERS N63-16953 14-07	AEROMAGNETIC AND MARINE EXPLORATION JPRS-16568 N63-10979 02-21
TESTING OF URETHANE FOAMS FOR USE AS RIGIDIZING AGENTS IN SELF-INFLATING SPACE VEHICLES NADC-EL-N6208 14-15	ATLAS OF DIURNAL AMPLITUDES OF AIR TEMPERATURE IN USSR JPRS-16667 M63-10901 02-21
MECHANICAL PROPERTIES OF HIGHLY FILLED URETHANE ELASTOMERS - INFLUENCE OF PARTICLE SIZE AND CONTENT ON TENSILE PROPERTY AND SHEAR MODULUS (L-63-41, ADDEND.) 19-19	OBSERVATIONS OF MARS IN THE USSR DURING THE GREAT OPPOSITION OF 1956 NASA-TT-F-93 N63-11212 03-29
POLYETHER URETHAME VULCANIZATES 6 ENVIRONMENTAL TESTING UNDER CONDITIONS OF HIGH HUMIDITY RIA-63-2808 A63-23002 24-17	IGY BIBLIOGRAPHY OF LITERATURE PUBLISHED IN RUSSIAN NASA-TT-F-109 N63-14012 09-12
MIDVLIC ACID HITAL ESTABLISHED LESS HAM BELLEN	SOVIET ASTRONAUTICS - 1957 TO 1962 RM-3595-PR N63-15570 12-32
HYDROLYSIS AND CHROMATOGRAPHIC BEHAVIOR OF DERIVATIVES AND COMPOUNDS OF 3-URIDYLIC ACID - OLIGONUCLEOTIDE ACETYLS & TETRAHYDROPYRANYLS LA-2923 N63-22907 23-07	USSR ABSTRACTS - TELLURIC CURRENTS, METEOROLOGY OF UPPER ATMOSPHERE, SOLAR RADIATION IN TOMOSPHERE AND ATMOSPHERIC ELECTRICITY
THE THE PARTY OF T	ATO-P-63-87 N63-19514 19-12
F KIONEY DETERMINATION OF 1,1-DIMETHYL HYDRAZINE IN URINE AMRL-TDR-62-119 N63-10186 01-16	RADIO ELECTRONICS FOR SPACE COMMUNICATIONS AND RADIO ASTRONOMY IN THE SOVIET UNION JPRS-20588 463-19955 19-08
ACID-BASE VARIATION IN BLOOD AND URINE FOR DETECTION OF IN-FLIGHT HYPERVENTILATION SAM-TOR-62-117 No.3-13538 08-16	INSTRUMENTATION FOR STUDYING GEODESY & CARTOGRAPHY OF SOVIET UNION AID-P-63-107 N63-22440 23-12
REVERSIBLE HEMATURIA AND OLIGURIA FOLLOWING RENAL VENOUS PRESSURE ELEVATION N63-14333 10-16	RECENT USSR DEVELOPMENTS IN METEOROLOGY JPRS-21242 N63-23328 24-21
DETERMINATION OF BERYLLIUM IN URINE BY ION EXCHANGE SEPARATION	USSR SPACE PROGRAM SOVIET SPACE EXPLORATION JPRS-16187 N63-10320 01-32
HASL-134 N63-17459 15-07 ELECTRODIALYSIS FOR RECOVERING POTABLE WATER FROM	GAGARINS SPACE FLIGHT FTD-TT-62-044/182 N63-10440 01-32
URINE AMRI-TOR-63-30 N63-17491 16-16	USSR SPACE FLIGHTS - MEDICAL AND BIOLOGICAL
ELECTROLYSIS CELL/FUEL CELL METHOD OF RECOVERING	ASPECTS JPRS-16227 13 A1837.432 AM LOMAN J N63-10621 2 02-16
POTABLE WATER FROM URINE AMRL-TOR-63-32 N63-17583 16-16	LIVING ORGANISMS OBTAINED FROM METEORITE
ADRENALINE AND NONADRENALINE IN URINARY EXCRETION	SAMPLE - USSR SPACE PROGRAM JPRS-17326 - MS3-12190 - 05-16
OF HUMAN IMMERSED IN WATER - CATECHOLAMINE AMRL-TDR-63-20 N63-17666 16-16	SOVIET MANNED SPACE FLIGHT - RESULTS OF MEDICAL & PHYSIOLOGICAL MONITORING OF COSMONAUTS IN VOSTOK 1
EXCRETION OF TITRATABLE ACID AND AMMONIA IN URINE OURING HYPOTHERMIA	E VOSTOK 2 - LIFE SUPPORT SYSTEMS FTD-TT-62-1619/162 N63-15658 12-16
347 104 03 0	DESCRIPTION OF MARS 1 - SOVIET UNION SPACEGRAFT
BEHAVIOR OF THROMBIN IN BODY FLUIDS - BLOOD SERUM, CEREBROSPINAL FLUID, URINE, GASTRIC AND DUDDENAL JUICES N63-18971 18-16	N63-17262 15-29 SOVIET SATELLITES, SPACE CAPSULES & SPACE PROBE
WATER RECOVERY FROM CELLULOSE ACETATE MEMBRANES AND URINE	DATA RAE-TRANS-1034 3417 (0/4 2531 0/4 163-18100 16-32
NASA-CR-50642 N63-19941 19-07	SOVIET SATELLITES AND SPACE SHIPS FTD-TT-62-121/162 N63-18430 17-32
LIFE SUPPORT SYSTEMS IN OUTER SPACE - UTILIZATION OF HUMAN URINE AND ALGAE DURING SPACE EXPLORATION NASA-CR-50860 N63-20248 20-16	SPUTNIK VIII SATELLITE - SOVIET LUMAR FLIGHT NA3-18439 17-32
TOXICITY IN MICE AT LOW BODY TEMPERATURES - MOLE OF ADRENAL HORMONES & NITROGEN IN URINE AAL-TOR-62-63 N63-21399 22-16	BIBLIOGRAPHY - SOVIET SATELLITES AND SPACE SHIPS SATELLITE OBSERVATIONS, REASUREMENTS AND PHOTOGRAPHY - MANNED SPACEFLIGHT EXPERIMENTS MA3-18455 17-32
URINARY EXCRETION OF CORTICOSTEROME-LIKE HORMONES AND CATECHOLAMINES STUDIED IN PILOTS IN TWO-MAN SPACE CABIN SIMULATOR SAH-TDR-63-53	W63-18495 17-32 UTILITY AIRCRAPT WIND TUNNEL TESTS OF MEDIUM-WEIGHT UTILITY HELICOPTER AT FORWARD SPEEDS MASA-TW-0-1887 N63-16430 14-64
METABOLIC EFFECTS OF METHIONINE TOXICITY IN MATS — ALTERATIONS IN THE LIVER & INCREASED URIMARY EXCRETION OF AMINO ACIDS	10-11 X0001-100 DA TAN AND DA TAN AND TAN AND AND AND AND AND AND AND AND AND A
AAL-TDR-63-5 100-1 3A1 A1 A4 N63-22715 1923-16	V GROOVE ABSORPTION OF THERMAL RADIATION IN V-GROOVE
SOVIET SPACE EXPLORATION N63-10320 01-32	CAVITY H65-12194 05-23
SOVIET BLOC RESEARCH IN GEOPHYSICS, ASTRONOMY, AND	SA XC-142 V/STOL AIRCRAFT V/STOL AIRCRAFT TESTING FOR GROUND EFFECTS WGL PAPER-30 N63-10028 01-04
SPACE SCIENCES /NO. 48/ 1962 JPRS-16455 M63-10526 01-01	DYNAMIC STABILITY AND CONTROL RESPONSE DESIRED FOR

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V/STOL AIRCRAFT LINEARIZED THEORY OF WIND-TUNNEL JET-BOUNDARY CORRECTIONS AND GROUND EFFECT FOR V/STOL AIRCRAFT NASA-TR-T-124 AERODYNAMIC CHARACTERISTICS OF AIRCRAFT WITH LIFTING-FAN PROPULSION SYSTEM FOR V/STOL - FULL SCALE WIND TUNNEL LAS PAPER-63-27 N63-12889 07-04	DYNAMIC LOADS PROBLEMS OF V/STOL AIRCRAFT OF CONVENTIONAL STRUCTURAL DESIGN N63-20358 20-04 V/STOL AIRCRAFT STUDIES OF WEIGHT COSTS AND PRODUCTION N63-20359 20-04 STRUCTURAL DESIGN OF V/STOL AIRCRAFT RESULTING FROM DYNAMIC LOAD PROBLEM AND NOMUNIFORM FLOW OF SHROUDED PROPELLERS N63-20361 20-04
VARIABLE SMEEP WING V/STOL AIRCRAFT DESIGN - PART 1, AERODYNAMIC DESIGN ASPECTS RAC-1012 N63-13051 07-04	RESEARCH IN V/STOL AIRCRAFT DESIGN, CAPABILITY, CONTROL, DYNAMIC LOADS, TRANSITION FLIGHT, AERODYNAMIC LOADS AND WING AEROELASTICITY N63-20363 20-64
V/STOL AIRCRAFT - VERTICAL PLIGHT, HOVERING, STABILITY AND CONTROL SYSTEMS AGARD-408 N63-13660 08-04	AERODYNAMICS, AEROELASTICITY, MATERIAL STRENGTH AND FLIGHT CHARACTERISTICS OF V/STOL AIRCRAFT N63-21631 22-01
AERODYNAMIC PROBLEMS AT TAKEOFF AND LANDING - HIGH SPEED AIRPLANES, V/STOL AIRCRAFT, RUMMAYS DFL-193 N63-14353 10-04	DYNAMIC LOAD PROBLEMS OF HELICOPTER AND V/STOL AIRCRAFT ROTORS N63-21823 22-04
COMPILATION OF PAPERS PRESENTED AT NASA CONFERENCE ON TESTING, DESIGN, PERFORMANCE, AND IMPROVEMENTS OF VTOL AND V/STOL AIRCRAFT N63-14683 10-04	ROTOR BLADE HARMONIC AIRLOADING OF HELICOPTER AND V/STOL AIRCRAFT 1711 241 21 11 11 11 11 11 11 11 11 11 11 11 11
REVIEW OF BASIC PRINCIPLES OF V/STOL AERODYNAMICS. FUEL CONSUMPTION AND PROPULSIVE EFFICIENCY DURING HOVERING AND CRUISE FLIGHT N63-14684 10-04	DYNAMIC LOAD PROBLEMS ASSOCIATED WITH HELICOPTERS AND V/STOL AIRCRAFT N63-21836 22-04
TESTS OF WING-TIP-MOUNTED DUCTED FANS FOR V/STOL N63-14687 10-03	COMMERCIAL AIR TRANSPORT DEVELOPMENT - HELICOPTERS V/STOL AIRCRAFT, & SUPERSONIC TRANSPORTS NASA-TH-X-50303 N63-22168 23-04
CHARACTERISTICS WHICH HAVE SIGNIFICANT EFFECT ON TRANSITION PERFORMANCE OF V/STOL AIRCRAFT - POWER EFFICIENCY, VELOCITY PROFILE, DESIGN, WING PROFILE N63-14692 10-04	V/STOL WIND TUNNEL MODEL SIMULATING TRANSITION — WING PRESSURE MEASUREMENTS IN PROPELLER SLIPSTREAN NASA-TN-D-2014 23-03 VACUUM
V/STOL AIRCRAFT HANDLING AND CONTROL CRITERIA - LONGITUDINAL, LATERAL, DIRECTIONAL STABILITY AND CONTROL IN TRANSITION N63-14697 10-04	SA HIGH VACUUM SA ULTRAHIGH VACUUM EFFECTS OF LONG TERM VACUUM ON COMMERCIAL SILICON RADIATION DETECTORS ARL-62-416 N63-10291 01-15
V/STOL AIRCRAFT HANDLING CRITERIA FOR HOVERING, LOW-SPEED AND TRANSITION FLIGHT - CONTROL RESPONSE AND POWER - FLIGHT STABILITY N63-14698 10-04	MAGNETIC DRIVES FOR PRODUCING ROTATIONAL MOTION IN VACUUM APPARATUS FTD-TT-62-1143/18284 N63-10330 01-17
V/STOL AIRCRAFT - GROUND HANDLING, TAKEOFF, TRANSITION, ENGINE-OUT CHARACTERISTICS, INSTRUMENT APPROACHES AND LANDING M63-14701 10-04	INITIAL WEIGHT LOSS OF PLASTICS IN A VACUUM NASA-TN-D-1329 N63-10625 02-19
OPERATING PROBLEMS OF V/STOL LANDING AND APPROACH N63-14702 10-04	A VACUUM-STABLE MICROBALANCE FOR HIGH TEMPERATURE OXIDATION ANALYSES ARL/MET-15 N63-10876 02-15
DESIGN AND OPERATION OF V/STOL AIRCRAFT WITH REFERENCE TO PROPULSION SYSTEM NOISE N63-14704 10-04	BEARINGS FOR VACUUM OPERATION NASA-TN-D-1339, PHASE I N63-10931 02-17
V/STOL AIRCRAFT - HELICOPTER DESIGN - DRAG REDUCTION - PROPELLERS AND FIXED WINGS IN HIGH SPEED FLIGHT N63-14709 10-04	EXPLOSIONS IN VACUUM - PENTOLITE DETONATION GAS PRODUCTS EXPANSION NOLTR-62-19 N63-12199 05-26
WING AND FLAP LOADS OF V/STOL AIRCRAFT - WIND TUNNEL STUDY	EFFECT OF VACUUM ON MICROORGANISMS JPL-TR-32-289 N63-12213 05-16
MASA-TM-D-1634 AERODYNAMIC PROBLEMS OF SHORT TAKEOFF AND LANDING OF V/STOL AIRCRAFT DFL-167 M63-15962 13-04	EFFECT DF VACUUM ON PENETRATION CHARACTERISTICS OF PROJECTILES INTO FINE PARTICLES NASA-TN-D-1519 N63-12244 05-23
ANNULAR JET FLOW OF V/STOL AIRCRAFT - DEPENDENCE ON GROUND EFFECT AND ANGLE-OF-ATTACK UTIA-TN-63 N63-17557 16-02	SELF ERECTING FLEXIBLE FOAM STRUCTURES FOR SPACE ANTENNAS - RECOVERY AND STRESS-STRAIN PROPERTIES - VACUUM AND SOLAR RADIATION EFFECTS MASA-TN-D-1610 M63-13187 07-08
FLIGHT CHARACTERISTICS OF DEFLECTED SLIPSTREAM V/STOL AIRCRAFT NASA-TH-D-1891 N63-18663 17-04	ATMOSPHERIC CONDITION EFFECTS ON NICKEL IN CONTROLLED ENVIRONMENTS OF NITROGEN AND A VACUUM CHAMBER
PROPELLER WHIRL INSTABILITY IN V/STOL AIRCRAFT - PROPELLER THRUST, ANGLE OF ATTACK AND FLAPPING EFFECTS NA3-19169 18-04	NRL-5880 GALAZZAMI 2 GARLAMI N63-13338 GE-18 FRICTION AND WEAR IN SPACE ENVIRONMENT AND LUBRICATION FOR SPACECRAFT MECHANISMS
DYNAMIC LOADS AND DESIGN OF HELICOPTERS, VERTICAL TAKEOFF AND LANDING AIRCRAFT AND V/STOL AIRCRAFT	N63-13457 08-17 DIELECTRIC LOSSES IN MICA AFTER HEAT TREATMENT AND UNDER VACUUM N63-13620 08-23
M63-20351 20-04 DYNAMIC LOAD PROBLEMS OF PROPELLER DRIVEN V/STOL AIRCRAFT N63-20357 20-04	THERMAL PROPERTIES OF SIMULATED LUNAR MATERIAL IN AIR AND IN VACUUM JPL-TR-32-368 N63-13767 06-29

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23

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18

17 10

9

TIME LAG OF SPARK FORMATION IN AIR AND IN VACUUM - EFFECTS OF FIELD. PRESSURE AND ELECTRODE SEPARATION N63-13769 08-23
ELECTROLUMINESCENT WORK WITH SINGLE CRYSTAL PHOSPHORS FABRICATED IN THIN FILM CELLS BY VACUUM DEPOSITION
SMIR-62-7
OPTICAL AND THERMAL METHODS OF MEASURING SOLAR ASSORPTANCE AND THERMAL EMITTANCE — THERMAL VACUUM TECHNIQUE TESTED FOR SPACECRAFT COATINGS NESA-TN-D-1716 10-15
VACUUM GAUGE CALIBRATION SYSTEM N63-14384 10-15
LOW-DENSITY FLUID DYNAMICS PRESSURE MEASUREMENT - APPARATUS REVIEW N63-14394 10-24
SURVEY OF LARGE SPACE CHAMBERS - VACUUM CHAMBERS
TO SIMULATE SPACE ENVIRONMENT N63-14626 10-30
SURFACE AND MECHANICAL PROPERTIES OF STRUCTURAL MATERIAL - FATIGUE OF ALUMINUM IN VACUUM N63-14753 11-18
ROTATING BODY VACUUM MOTION APPROXIMATION - RIGID SYMMETRICAL BODY WITH SPIN RATE AND INERTIA VARIANCES
VARIANCES NASA-TR-R-115 N63-14781 11-02
SIBLIOGRAPHY AND INDEX OF VACUUM AND LOW PRESSURE MEASUREMENT
NBS-MONOGRAPH-35 N63-14845 11-15
INVESTIGATION OF COMBINED EFFECTS OF RADIATION AND VACUUM ON STRUCTURAL MATERIALS FOR NUCLEAR SPACE—CRAFT COMPONENTS — MATERIALS SCIENCE FZK-147 N63-15057 11-19
JET BLAST EFFECT ON DUST COVERED SURFACE IN VACUUM
ENVIRONMENT ERR-AN-244 N63-15216 11-11
COMBINED EFFECTS OF RADIATION AND VACUUM, AND OF RADIATION AND CRYOCENIC TEMPERATURE ON ENGINEERING MATERIALS
FZK-152 TAL BALL ON A STATE OF THE NO. N63-15349 12-19
VACUUM POLARIZATION AND RESONANCE CONTRIBUTIONS OF VISTUAL VECTOR MESONS IN HIGH ENERGY ELECTRON-POSITRON CULLISIONS LNF-63/6 N63-15384 12-24
THE RESERVE AND THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS.
QUANTITATIVE DETERMINATION OF OXYGEN IN URANIUM MONOCARBIDE BY VACUUM HOT EXTRACTION N63-15648 12-07
INFLUENCE OF MICROSTRUCTURAL INCLUSIONS ON MEAR
AND FRICTION OF NICKEL AND IRON ALLOYS IN VACUUM ENVIRONMENT
STORE FIVER TO INTUANT BY HUBBLE FOR TENTURET BY
VACUUM ELECTRICAL BREAKDOWN - ELECTRIC VACUUM GYROSCOPE - COMPUTER PROGRAM - PLASMA PHYSICS N63-16273 13-01
VACUUM CHAMBER TEST PROGRAM FOR LUBRICANT FILM ON BEARINGS, GEARS AND PINIONS
AEDC-TOR-63-67 ** DIVANTE N63-16299 13-17
RAREFIED GAS FLOW THROUGH CASCADE OF FLAT PLATES - APPLICATION TO VACUUM PUMPING
DEAL THE MEDICAL RESTAURAN N63-16494 14-11
CAYDTRAPPING OF MELIUM & MYDROGEN DURING 20-DEG K CONDENSATION OF GASES ON SOLID SURFACES - SPACE CHAMBER APPLICATIONS
AEDC-TOR-63-127 N63-16547 14-11
CALIBRATION OF THERMOCONDUCTIVITY VACUUM GAUGE TO 10 MINUS 4 TORR BY MEANS OF VOLUME-RATIO CALIBRATION SYSTEM - PRESSURE MEASUREMENTS NASA-TN-D-1729 14-17
MEASURED EFFECTS OF VARIOUS CONSTNATIONS OF
NUCLEAR RADIATION, VACUUM, AND CRYOTEMPERATURES ON

COMPONENT PARTS OF NUCLEAR-POWER FZK-163	
VACUUR TECHNIQUE FOR ATTACHING A A VIBRATION EXCITER HE AMERICA	TEST FIXTURE TO 10 10 10 10 10 10 10 10 10 10 10 10 10
BERYLLIUM RESEARCH - PURIFICATION DISTILLATION, JOINING BY ULTRASO AND FRACTURE CHARACTERISTICS ASD-TOR-62-509, VOL. II	NIC WELDING, FLOW
ELECTRON ENISSION FROM SMOOTH SU	REACES BY ELECTRIC
VACUUM FURNACE FOR SINTERING CAR AERE-M-963	BIDES AND DXIDES 863-17381 15-10
EPOXY RESIN VACUUM SYSTEM SEALS CONDUCTORS IN CRYOGENIC EQUIPMEN AFCRL-63-78	FOR ELECTRIC T N63-17506 16-17
PRESSURE PULSES, SHOCK AND VIBRA LAUNCH VEHICLE CONNECTORS - HEAT VACUUM AND RADIATION EFFECTS ON NASA-CR-50562	CONNECTOR GASKETS N63-10323 17-17
NIMBUS SATELLITE - VACUUM CHAMBE POWER TELEMETRY, ALTITUDE CALCUL LOGIC AND S-BAND TRANSMITTER, GR	ATION. TELEMETRY
PHILOSOPHY USED FOR CONDUCTING T TESTS OF UNMANNED EARTH SATELLIT NASA-TN-D-1748	
THERMAL-VACUUM ENVIRONMENTAL TES	「私のユー丁女団本の 「カーモフ
DEEP SPACE ENVIRONMENT SIMULATION VACUUM LEVEL SIMULATION IAS PAPER-63-56	THE RESERVE OF THE PARTY OF THE
SURVEY OF VACUUM LUBRICATION	N63-18870 18-17
SPACE SIMULATION ION GAUGES FOR MEASUREMENTS IN AEROSPACE ENVIRO CHAMBERS	ASD-TOR-SE-VET
EFFECT OF RADIANT HEAT COMPONENT	
IN VACUUM SUBLIMATION NASA-TT-F-178	N63-19865 19-13
VACUUM CRYDSORPTION BY ACTIVATED AEDC-TOR-63-170	CHARCOAL M63-20590 20-11
DEPOSITION OF VACUUM COATINGS BY BOMBARDMENT NASA-TT-F-185	N63-20612 20-17
VACUUM EFFECT ON CREEP-RUPTURE F SINTERED AND COMMERCIAL ALUMINUM NRL-5948	NA3-20A71 20-18
VACUUM LEAK DETECTION APPLIED TO CHAMBERS AEDG-TOR-63-142	SPACE SIMULATION
PROPERTIES OF NUMERALLIC MATERINASA-CR-50948	VACUUM ON PHYSICAL
STATIC BEARING CAPACITY OF SIMU SURFACES IN VACUUM NASA-CR-51318	LATED LUNAR ATTA
TENSILE TESTING MACHINE FOR HIGH VACUUM JPL-TR-32-358	H TEMPERATURES IN NO.3-21856 22-33
VACUUM CLADDING OF REFRACTORY MI JPRS-21244	ETALS N63-22109 22-18
ULTRAHIGH VACUUM EVAPORATOR FÖR SILICON AND/OR GERMANIUM FILMS EFFECT STUDIES Q445-2	- OPTICAL AND HALL
Q445-2002 DESIGNATION OF THE PROPERTY OF THE P	We3-55931 53-16

ULTRAHIGH VACUUM DEPOSITION OF SILICON AND/OR GERMANIUM SEMICONDUCTOR FILMS - OPTICAL STUDIES, ELECTRON DIFFRACTION, AND HALL EFFECT	VACUUM TUBE CF ELECTRON TUBE VACUUM AND GAS DIODES - CHARGED PARTICLE MOTIONS
Q445-3 N63-22632 23-0 HIGH VACUUM DEPOSITED ACTIVE THIN FILM	IN GAS DIODE WHEN TUBE CURRENT IS SPACE CHARGE LIMITED - ELECTRON VELOCITY IN DISCHARGE REGION NA3-11572 14-08
SEMICONDUCTORS, DIQUES, AND TRANSISTORS Q445-4 N63-22633 23-0	AND THE PERSON OF THE PERSON O
PRODUCTION OF VACUUM BY CONDENSATION OF GASES ON LOW TEMPERATURE SURFACES - CRYOGENIC PUMP AERE-TRANS-912 24-1	IN VACUUM ULTRAVIOLET WAVELENGTH REGION NASA-TN-D-1715 N63-13220 07-15
STABILITY OF WHITE TEMPERATURE—CONTROL COATING FO SPACECRAFT UNDER ULTRAVIOLET IRRADIATION IN VACUU	VACUUM ULTRAVIOLET ION CHAMBERS, PHOTODETECTORS N63-13578 08-15
NASA-CR-52134 N63-23501 24-1 VACUUM CHAMBER TEST OF HIGH TEMPERATURE SOLAR	
THERMIONIC GENERATORS N63-23597 24-1	VACUUM ULTRAVIOLET
MEASURED EFFECTS OF THE VARIOUS COMBINATIONS OF NUCLEAR RADIATION, VACUUM, AND CRYOTEMPERATURES O ENGINEERING MATERIALS	VACUUM ULTRAVIOLET MONOCHROMATOR
NASA-CR-52319 N63-23807 24-1	TO THE REAL PROPERTY OF A STREET OF THE PARTY OF THE PART
VACUUM EQUIPMENT PLUG-IN-TYPE SURFACE IDNIZATION SOURCE FOR MASS SPECTROMETER WITH VACUUM EQUIPMENT	PLANETARY AERONOMY - COMPILATION OF ABSORPTION SPECTRUM OF SOLAR VACUUM ULTRAVIOLET RADIATION BY ATMOSPHERIC GASES
Y-1415 N63-14793 11-2	
R-167 N63-16869 14-2	TECHNIQUE
OIL BACKSTREAMING THROUGH VACUUM TRAP AT CRYOGENI TEMPERATURES	
AEDC-TDR-63-149 N63-19048 18-1	AERONOMY AND ATMOSPHERES IN VACUUM ULTRAVIOLET
ELECTRIC VACUUM GYROSCOPE, PLASMA PHYSICS, COMPUTER PROGRAM, HIGH MAGNETIC FIELD SUPER- CONDUCTOR, ELECTRONICS, AND DISARMAMENT RESEARCH N63-20580 20-0	ABSOLUTE RADIATION INTENSITIES IN VACUUM ULTRAVIOLET REGION
VACUUM EQUIPMENT IN DYNAMIC ENVIRONMENTAL	MATT-186 N63-17444 15-15
SIMULATION N63-20884 21-2 VACUUM MELTING	VIBRATIONAL QUANTUM NUMBERS - VACUUM ULTRAVIOLET
VACUUM ARC MELTING OF A TUNGSTEN ALLOY ASD-TDR-62-781 N63-10662 02-1	
VACUUM ARC MELTING OF TUNGSTEN BASE MIDBIUM ALLOY - EFFECT OF MELTING RAYE ON INGOT CHARACTERISTICS	ABSORPTION SPECTRUM OF SHORT-LIVED PINK AFTERGLOW OF NITROGEN PHOTOGRAPHED IN VACUUM ULTRAVIOLET
ASD-TDR-63-296 M63-15881 13-1	FROM 1600 TO 1150 ANGSTROMS NASA-CR-50485 N63-18367 17-23
CASTING OF COPPER 8M-RI-6254 N63-19236 18-1	B WAVELENGTH RANGE FOR STUDY OF RADIATION EFFECTS
VACUUM SYSTEM PLASMA PHYSICS - DCX-1 AND DCX-2 PLASMA, VACUUM	WADD-TR-60-371 N63-19325 18-24
ARC, IONS, MAGNETICS AND SUPERCONDUCTIVITY ORNL-3392 N63-13458 08-2	VACUUM ULTRAVIOLET RADIATION EFFECTS ON MATERIALS IN VACUO - SPACE ENVIRONMENTAL RESEARCH FACILITY WADD-TR-60-371, PT. 11 M63-19326 18-10
VACUUM-AIR MISSILE BOOST CONCEPT - ESTIMATION OF TERMINAL VELOCITY IMPARTED TO PROJECTILE IN LAUNC TUBE	The Control of the Co
AROD-N-62.4 N63-14611 10-3	
PERMEABILITY OF SOME PLASTIC MATERIAL SUITABLE FO HIGH VACUUM SYSTEM CONSTRUCTION AERE-M-599 N63-15466 12-1	PROPERTIES IN VACUUM ULTRAVIOLET - ALUMINUM
RESEARCH, DEVELOPMENT, AND FABRICATION OF TUNNEL EMISSION CATHODES - IMPROVEMENTS IN VACUUM SYSTEM	PHOTON COUNTERS FOR THE ULTRAVIOLET AND VACUUM ULTRAVIOLET RADIATION SPECTRUM
FOR METAL FILM DEPOSITION N63-19432 19-0	N63-20860 21-23
HIGH VACUUM AND HIGH TEMPERATURE ENVIRONMENT MAGNETIC BEARINGS ASD-TDR-63-474 N63-19464 19-1	VACUUM ULTRAVIOLET RADIATION AS PROBE OF RARE GAS PLASMAS AROD-2267-7 N63-21009 21-24
PLASMA STABILITY, PARTICLE ACCELERATION, VACUUM SYSTEMS, AND SUPERCONDUCTIVITY RESEARCH ORML-3472 19-2	STRUCTURE OF TELLURIUM SINGLE CRYSTALS STUDIED BY ELECTRON TRANSPORT METHODS - VALENCE AND
ADSORPTION OF GASES ON SOLIDS IN THE HIGH VACUUM	CONDUCTION BANDS N63-13278 07-25
RANGE AFCRL-63-372 N63-22199 23-1	COVALENCY EFFECTS IN ABSORPTION SPECTRA OF PR 3-PLUS AND NO 3-PLUS IN LANTHANUM TRICHLORIDE AND LANTHANUM TRIBROWIDE
	AROD-2099-12 N63-16852 14-25

ONS E ON 14-09

77-13 78 78 78 78-13 79 71-07

5-15 ET 6-23

7-25 LOW 1-23

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-23

-23

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VIBRATION FREQUENCIES IN METHYLENE AND	12-188 de	LACK OF INFLUENCE OF CAPETOWN GRAV VAN ALLEN RADIATION BELT		
AFCRL-63-859 N63-22387	17-485-11	RADIATION HAZARDS TO MEN IN SPACE -	- VAN ALLEN	
CRYSTAL STRUCTURE OF VALERIC ACID - HYDROG BONDING OF FATTY ACIDS DETERMINED BY X-RAY		PROTONS, GALACTIC COSMIC PARTICLES P-2691	LOW-DEMPCRATOR	
DIFFRACTION N63-12350	05-07	VAN ALLEN BELT PROTON FLUX MEASURE SATELLITES		
5 BOUNDARY VALUE	Continues of	LNSC-2-08-62-2	CHARLEST SATES AND AND AND AND ADDRESS OF THE PARTY OF TH	kr.
MAYE SA CHECK VALVE HDT GAS JET REACTION VALVE USING BOUNDARY	LAYER	VAN ALLEN BELT - INNER BELT RADIAT ION CHAMBER AND GEIGER COUNTER ABO SATELLITE	ARD EXPLORER VI	2
TECHNIQUES TO CONTROL HIGH PRESSURE, HIGH TEMPERATURE GAS STREAM RE-TR-62-9 N63-19598		SURVEY OF ENERGETIC PARTICLES IN I BELT - EXPERIMENTAL DATA ON PARTIC SPECTRA AND ACCELERATION	LE FLUX.	2
VALVE TECHNOLOGY FOR SPACECRAFT ROCKET ENG	INES	NASA-TH-D-1749 CRASS MERE NO PROMEN	63-18458 17-12	2
N63-15032	11-17	SPACE RADIATION - VAN ALLEN BELT, SOLAR WIND, AND GALACTIC COSMIC RA	YS	
COUPLING, VALVE, AND FLOWMETER FOR TRANSFE	R OF	ASD-TDR-62-606 of residual to the second	WIDELINA SYSTEM	
NASA-TN-D-1727 N63-16989		COSMIC RADIATION, SOLAR PLASMA, VA SCINTILLATION COUNTER RESEARCH IN	ITALY	
PULLING ACCELERATION SYSTEM - BAKEABLE VAL	VE FOR	LNF-63/54, tel combas Mozellosse AM	63-23194 24-2	3
ARF-A218-12 N63-18882 OUTBOARD BLADE DUCT CLOSURE VALVE FOR HOT		GEOPHYSICS - MORPHOLOGY AND VARIAT INTENSITY OF VAN ALLEN BELT, GEOMA EQUATORIAL RING CURRENT	GNETISM OF	œ.
ROTOR SYSTEM - CHANGING EFFECTIVE NOZZLE A		PROPERTY ESTANCE OF THE PROSPECT OF THE PROPERTY OF THE PROPER		
ACCEPTABLE SINGLE-ENGINE OPERATION TOREC-TR-62-103 N63-19078	18-27	VAN DE GRAAFF ACCELERATOR - BEAM / STABILIZING SYSTEM, AND HIGH VOLT/		
EFFECT OF LOW COMPRESSION TEMPERATURE ON COMBUSTION IN DIESEL ENGINES - INLET VALVE	TIMING.	AEET/NP/5	163-12973 07-1	0
INLET TEMPERATURE, AND FUEL INJECTION ATR-3 N63-21407	22-26	PHYSICS SUMMARY - VAN DE GRAFF ACC NUCLEAR REACTIONS, MASS SPECTROSCO SUPERCONDUCTIVITY, AND PARTICLE TO	PY,	181
AMPIRE MK-35 AIRCRAFT FLIGHT TESTS OF VANPIRE MK-35 TRAINER AIRC		ANL-6679 12 2312 49089 14 3196 WORLD	163-15105 11-2	3
ARL/SH-275 N63-19907	19-04	ATOMIC BEAM APPARATUS WITH VAN DE TO PRODUCE POLARIZED ION RADIATION INTERACTION WITH ION SOURCE	- EXCITATION	
HIGH AND LOW TEMPERATURE TEST OF AEROJET L	TILITY	CHADLUN-RASED ALLOWS		Ē
950-TDR-62-331 N63-12450	06-30	VAN DER WAALS FORCE ELASTIC SCATTERING OF NEUTRAL MASS BY DIELECTRIC CRYSTAL - CONSIDERA'	-POINT PARTICLE	S
UTILITY VAN FOR TRANSPORT OF MINUTEMAN SEC STAGE OPERATIONAL ENGINES		MAALS FORCES AND PERTURBATION POT	ENTIAL 163-14395 10-2	23
BSD-TOR-62-329 N63-12451	06-30	VANADATE TO METTAR AND ADMINISTRATION	CHUTCHES HULDAN	A.Y
STRUCTURAL TESTS OF UTILITY VAN FOR SECOND		HEATS AND FREE ENERGIES OF FORMAT TUNGSTATE, CALCIUM HOLYBDATE, AND MOLYBDATE		
8SD-TDR-62-330 N63-1245	100	BH-RI-6143 BUILDING WING JATER H	163-11332 03-2	3
AM ALLEN BELT CF ARTIFICIAL RADIATION BELT CF INNER RADIATION BELT		HEAT AND FREE ENERGIES OF FORMATION	ON OF LEAD AND	
CF DUTER RADIATION BELT		BN-RI-6197	M63-13312 07-2	3
VAN ALLEN ZONE - OUTER-ZONE ELECTRONS CR-51 N63-1130	03-28	VANADIUM MAGNETIC SUSCEPTIBILITIES OF VANA CORUNDUM CRYSTALS	THE TOPPUDENCE SO	25
RADAR OBSERVATIONS - FIELD-ALIGNED IRREGUL DURING MAGNETICALLY DISTURBED DAYS, MAY 6		HEAT AND EDGE ENERGY OF EDDNATION	PRESENT STREET	-
1960 - VAN ALLEN BELT AFCRL-62-352 N63-11899	04-12	AND CARBIDE OF VANADIUM	H63-12781 06-1	
VAN ALLEN BELTS - MOTION AND ORIGIN OF PA		ANALYSIS OF HIGH PURITY VANADIUM	N OPTICAL CAM	AV
IN EARTH RADIATION BELTS N63-1265		EMISSION SPECTROSCOPY OM-RT-6182	N63-13038 07-0	17
VAN ALLEN BELT IN AUGUST AND SEPTEMBER 19: PROPERTIES OF OUTER BELT MEASURED BY EXPLI- N63-1508:	DRER VI	X-RAY PRODUCED VANADIUM IONS FROM SINGLE CRYSTALS OF ZINC AMMONIUM		AV
STUDY OF ENERGY RADIATION IN OUTER VAN ALI FROM EXPLORER VI SATELLITE DATA ACQUISITION AUGUST AND SEPTEMBER 1959 N63-1509	ON DURING	AMPEROMETRIC TITRATION TO DETERMI OF VANADIUM IN STEELS AND CAST IR	NE TRACE AROUNTS	5
PROTON FLUXES ALONG TRAJECTORIES THROUGH VAN ALLEN BELT N63-1515		WAL-TR-823.3/1 STABLE VANADIUM, CALCIUM, AND POT	ASSIUM ISOTOPES	200
RADIATION DOSE FROM ELECTRONS AND BREMSST	STREET	PRODUCED IN IRON METEORITES BY CO	SHIC RAYS N63-17134 15-1	15

OUCTILE VANADIUM METAL FROM CALCIUM REDUCTION OF VANADIUM OXIDE IN BOMBS

RADIATION DOSE FROM ELECTRONS AND BREMSSTRAMLUNG IN VAN ALLEN BELT - SPACECRAFT SHIELDING N63-15153 11-32

\$1 all supplied = \$78 000 octobrill Princip Talk British 193 (197)	21-19	DAMPING AND VISCOUS FRICTION ARC-CP-652 N63-21799 22-02
LUMINESCENCE IN VANADIUM-ACTIVATED ZINC SULFIC N63-22256		IMPINGEMENT OF AIRBORNE WATER PARTICLES ON 90-DEG TURNING VANE
LOW TEMPERATURE NONAQUEOUS BATHS FOR ELECTRO-		AEDC-TDR-63-195 N63-22613 23-11
DEPOSITING MOLYBDENUM, TUNGSTEN & VANADIUM IN ORGANIC SOLVENTS		VALUE ESTIMATION OF VERTICAL EDDY DIFFUSIVITY
	23-18	DIRECTLY FROM VERTICAL VANE DATA N63-22680 23-23
METALLURGICAL AND NETALLOGRAPHIC INVESTIGATION	NS V 01-18	VANGUARD SATELLITE SATELLITE ORBITAL DATA - MEAN ELEMENTS, SMOOTHED
IMPROVED VANADIUM-BASE ALLOYS FOR ELEVATED TEMPERATURE USE		ELEMENTS, AND SUN PERIGEE DATA FOR VANGUARD, ECHO, AND EXPLORER SATELLITES MASA-CR-50800 N63-20258 20-29
	05-18	ANGUARD II SATELLITE
THERMODYNAMIC PROPERTIES OF VANADIUM-IRON ALLO SYSTEM - MEASUREMENT OF IRON VAPOR PRESSURE BY TORSTOM-ERISTON METHOD	OY	CATALOG OF PRECISELY REDUCED OBSERVATIONS OF VANGUARD II SAO SPECIAL REPT102 N63-10509 01-29
	17-18	PRECISELY REDUCED OBSERVATIONS OF VANGUARD II AND
DISPERSION-STRENGTHENING MECHANISMS IN VANADIU NIOBIUM BASE ALLOYS		PRECISELY REDUCED UBSERVATIONS OF VANGUARD II AND VANGUARD III – JANUARY TO JUNE 1960 SAO SPECIAL REPT106 N63-12116 05-05
HIGH-TEMPERATURE OXIDATION PROTECTIVE COATINGS VANADIUM ALLOYS		SATELLITE OBSERVATIONS - EXPLORER I, VANGUARD II, VANGUARD II, AND EXPLORER VII SAO SPECIAL REPT96 N63-13475 08-32
ARF-B6001-4 M63-19666 1	19-17	SATELLITE ORBITAL DATA FOR EXPLORER 1, VII, VIII,
DISPERSION STRENGTHENING TO IMPROVE CREEP AND STRESS MUPTURE PROPERTIES OF VANADIUM & NIOBIL ALLOYS		IX AND VANGUARDAL DATA FUN EAPLORER 1, VII, VIII, IX AND VANGUARDAL II AND III — ORBITAL ELEMENTS SAO SPECIAL REPT.—113 N63-14254 10-29
IITRI-86007-4 N63-21478 2		CATALOG OF SATELLITE OBSERVATIONS C-31. EXPLORER I 6 VII, VANGUARD II & III - JANUARY-JUNE 1962
MECHANICAL PROPERTIES OF ANNEALED VANADIUM BAS ALLOY - WELDABILITY AND FORMABILITY	se	SAO SPECIAL REPT114 N63-14546 10-32
A073 N63-21801 2	22-18	SATELLITE ORBIT CALCULATIONS - POSITIONS OF VANGUARD II AND III SATELLITES AND ECHO I ROCKET
VANADIUM ALLOY - EVALUATION OF FABRICATION, CRACKING, AND MECHANICAL PROPERTIES AT ROOM AN	ND	NASA-CR-50795 N63-19094 18-08
ELEVATED TEMPERATURES HITRI-8231-9 N63-22057 2	22-18 V	ANGUARD III SATELLITE SATELLITE ORBITAL DATA OF VANGUARD III SAO SPECIAL REPT103 N63-10508 01-29
HIGH TEMPERATURE OXIDATION RESISTANT PROTECTIVE COATINGS FOR VANADIUM-BASED ALLOYS	VE	PRECISELY REDUCED OBSERVATIONS OF VANGUARD 11 AND
	22-18	VANGUARD III - JANUARY TO JUNE 1960 SAO SPECIAL REPT-106 N63-12116 05-05
ELECTROPLATING ON TITANIUM-ALUMINUM-VANADIUM ANASA-TM-X-50955 N63-22538	ALLOY	SATELLITE OBSERVATIONS - EXPLORER I, VANGUARD II, VANGUARD II ROCKET, VANGUARD III, AND EXPLORER VII
VANADIUM COMPOUND ELECTRON SPIN RESONANCE STUDY OF PARTIALLY RED	DUCED	SAO SPECIAL REPT96 N63-13475 08-32
VANADIUM PENTOXIDE SINGLE CRYSTALS N63-17263		SATELLITE ORBITAL DATA FOR EXPLORER I. VII, VIII, IX AND VANGUARD II AND III - ORBITAL ELEMENTS SAO SPECIAL REPT113 N63-14254 10-29
DUCTILE VANADIUM METAL FROM CALCIUM REDUCTION	OF	CATALOG OF SATELLITE OBSERVATIONS C-31. EXPLORER
08M - 7882 2174/ANY 783M CH	21-19	E VII. VANGUARD II & III - JANUARY-JUNE 1962 SAO SPECIAL REPT114 N63-14546 10-32
VANADIUM SESQUIOXIDE ELECTRIC AND MAGNETIC PROPERTIES OF VANADIUM		SATELLITE ORBIT CALCULATIONS - POSITIONS OF
SESQUIDXIDE AND RELATED SESQUIDXIDES N63-11311 0	03-25	VANGUARD II AND III SAYELLITES AND ECHO I ROCKET NASA-CR-50795 N63-19094 18-08
MAGNETIC LOSS IN GARNET FERROMAGNETS -	V	TRUE OUSTRANCE - FIRED-ALISMED FRANCISCO MONTH
MAGNETOMETER, ELECTRIC & MAGNETIC PROPERTIES OF VANADIUM OXIDES AND TITANIUM OXIDES	OF .	SA CESIUN VAPOR
AFCRL-62-553 N63-14777 1		TEMPERATURE DETERMINATION FROM A CLOUD OF ALKALI
VANADIUM SILICIDE VANADIUM SILICIDE HIGH TEMPERATURE HEAT-CONTEN		VAPOR IN THE UPPER ATMOSPHERE AFCRL-62-1049 N63-10122 01-29
AND ENTROPY DATA 8M-R1-6241 N63-16796 1	14-18	THE LIQUID-VAPOR INTERFACE CONFIGURATION IN
VANADYL RADICAL	12	WEIGHTLESSNESS ARS PAPER-2514-62 N63-10326 01-24
X-RAY PRODUCED VANADIUM IONS FROM VANADYL IONS SINGLE CRYSTALS OF ZINC AMMONIUM SULFATE N63-13123 0	5 IN 07-23	UPPER ATMOSPHERE WIND MEASUREMENTS DETERMINED FROM
VANE Land OTT-CAN LAND STATE TO A STATE OF STATE		VAPOR CLOUDS N63-11244 03-1
SA GUIDE VANE ATTENUATION ERROR AS FUNCTION OF VANE-ANGLE		REFRECT OF MA-7 SPACECRAFT ACCELERATIONS AND
EAROR - WAVEGUIDE ATTENUATOR N63-19984 1	19-09	INTERFACE IN A BAFFLED TANK NASA-TN-D-1577 N63-11618 04-24
WIND VAME MEASUREMENT OF AERODYNAMIC INCIDENCE STATIC POSITION ERROR & RELATION TO AERODYNAMI		CONDENSATION KINETICS AND MECHANISMS FROM VAPOR
STATE OF THE PROPERTY OF THE P		1000

22-02 0-DEG 23-11 V 19 23-23 HED ECHO, 20-29

01-29 AND 05-05 11, R VII 08-32 111, 10-29 RER I 10-32

ET 18-08

1-29 AND 5-05 11, VII 8-32 11, 0-29 ER 1 0-32

ET 9-00

1 -29

-26 ROH -12

-26

EXP-328 N63-15213 11-26	AND SODIUM-POTASSIUM ALLOYS FOR USE IN HIGH TEMPERATURE HEAT TRANSFER - LIQUID METAL COOLING N63-15004 11-13
NASA-CR-50049 N63-16722 14-11	DENSITY & VAPOR PRESSURE OF RUBIDIUM & CESIUM FOR
THERMIONIC EMISSION FROM METAL CRYSTALS IN ALKALI METAL VAPORS	USE IN HIGH TEMPERATURE HEAT TRANSFER - LIQUID METAL COOLED REACTOR N63-15006 11-13
AFCRL-63-451 N63-16735 . 14-18	ALLOYS OF RARE EARTH METALS - VAPOR PRESSURE.
MOLECULAR BAND ABSORPTION IN THE VISIBLE SPECTRUM OF POTASSIUM AND SODIUM VAPORS IN HIGH TEMPERATURE ARC AND PLASMA SYSTEM	THERMODYNAMICS, METALLURGY, AND X-RAY DIFFRACTION OF PRASEODYMIUM, NEODYMIUM, AND SAMARIUM ARL-63-15 N63-15549 12-18
ARL-63-37 N63-17462 15-18	VAPOR PRESSURE OF PARA HYDROGEN BETWEEN ITS
DENSITY OF UPPER ATMOSPHERE DETERMINED BY DIFFUSION OF SOCIUM VAPOR N63-18440 17-12	BOILING POINT /20 DEG K/ AND ITS CRITICAL POINT /33 DEG K/ - CRYOGENIC THERMODYNAMICS NASA-CR-50159 N63-16732 14-11
VELOCITY OF INTERFACE BETWEEN LIQUID AND VAPOR	HIGH TEMPERATURE EQUILIBRIUM VAPOR PRESSURES OF
PHASE OF SUPERHEATED LIQUID & TEMPERATURE DISTRIBUTION IN LIQUID PHASE N63-20427 20-11	INORGANIC MATERIALS USING MICROBALANCE AND
THREE-DIMENSIONAL DISPLAY SYSTEM WITH NITROGEN-	RESIDENT REAL RESIDENT HEATING - SILVER, PALLADIUM RESIDENT NEST 15-18
QUENCHED MERCURY VAPOR & ACOUSTIC MAVE SCANNING RADC-TDR-63-202 N63-20828 21-06	CARBONIZATION OF PLASTICS, VAPOR PRESSURE AND SPECTRAL EMITTANCE OF REFRACTORY MATERIALS
CONTAMINATION ENCOUNTERED IN HALOGEN VAPOR SYNTHESIS - SEMICONDUCTOR DEVICE CONCEPTS	WADD-TR-60-646, PT. II N63-17431 15-07
AFCRL-63-323/48/ N63-21320 21-25	THERMODYNAMIC PROPERTIES OF VANADIUM-IRDN ALLOY SYSTEM - MEASUREMENT OF IRON VAPOR PRESSURE BY
CALCULATION OF PARTIAL VAPOR PRESSURE OF SULFURIC	TORSION-EFFUSION NETHOD
ACID DURING VAPOR PHASE TRANSITION UCRL-10886 N63-22356 23-07	THE RESERVE THE PARTY OF THE PA
PRESSURE OF SATURATED MERCURY VAPOR AT ZERO-DEG	DENSITY, VAPOR PRESSURE, VISCOSITY AND FREEZING POINT OF HYDRAZINE MONONITRATE IN HYDRAZINE
AND HIGHER TEMPERATURES RSIC-60 N63-22463 23-23	NASA-CR-50970 N63-21071 21-26
The commence of the state of th	PRESSURE OF SATURATED MERCURY VAPOR AT ZERO-DEG AND HIGHER TEMPERATURES
VAPOR DEPOSITION PYROLYTIC REFRACTORY MATERIALS FOR SOLID-FUEL	RSIC-60 N63-22463 23-23
ROCKET ENGINE - VAPOR DEPOSITION WAL-TR-766.41/2-3 N63-11441 03-27	VAPOR TRAP DEA STRAFF SELVENCES NOT DESTRUCTION AND TRANSPORT
CRYSTALLOGRAPHY - HIGH PURITY SINGLE-CRYSTAL BORON PREPARATION BY CHEMICAL VAPOR PLATING AND X-RAY	HIGH ALTITUDE WATER-VAPOR DETECTORS - HYGROMETERS, VAPOR TRAPS, REFRACTOMETERS AFCRL-63-407 N63-14435 10-15
DIFFRACTION INSPECTION ASD-TDR-62-427 N63-13755 08-07	VAPORIZATION
REDUCTION IN VAPOR CARRYUNDER IN SIMULATED BOILING	CF BOILING
BY INSERTION OF WIRE MESH	CF EVAPORATION TWO-PHASE DROP VAPORIZATION WGL PAPER-58 N63-10053 01-22
MARKET THE THE VELTON CONTROL - SOUTHWAY	VAPORIZATION, SURFACE TENSION, AND VISCOSITY
VAPOR DEPOSITION OF REFRACTORY METAL OXIDES ON GRAPHITE BY PYROLYSIS OF ALKOXIDES ASD-TOR-63-322 N63-18116 16-07	STUDIES OF REFRACTORY METALS, AND VISCOSITY STUDIES OF REFRACTORY METALS, WADD-TR-60-463, PY. II W63-11227 03-18
THERMODYNAMIC PROPERTIES OF POLYSTYRENE- HYDROCARBON CHEMICAL VAPOR DEPOSITION SYSTEM RM-3708-PR N63-19118 18-23	REFRACTORY MATERIALS RESEARCH - VAPORIZATION AND EMISSIVITY OF INTERSTITIAL BORIDES AND NITRIDES N63-12177 05-18
LOW TEMPERATURE VAPOR DEPOSITION IN EPITAXIAL	SINGLE FUEL-VAPORIZING COMBUSTOR WITH INJECTORS
GROWTH OF TRANSISTORS AFCRL-63-363 N63-23179 24-25	ADAPTED FOR GASEOUS HYDROGEN NACA-RM-E55114 N63-12528 06-27
VAPOR PRESSURE OF ANNONIUM PERCHLORATE	RHENIUM-III CHLORIDE VAPOR PRESSURE AND STANDARD HEAT AND ENTROPY OF SUBLIMATION - TRANSITION
- 1 ENGILDANA SMIANAN ATMYNO W93-10111 01-01	METAL HALIDES AROD-2757-1 N63-13435 08-07
THERMODYNAMIC PROPERTIES OF METAL HALIDES WITH VAPOR PRESSURE REFERENCES AND BIBLIOGRAPHY	VAPORIZATION AND CONDENSATION - EVAPORATION,
RH-IC-8147 N63-13037 07-07	IRREVERSIBLE THERMODYNAMICS N63-13576 08-07
THERMAL DECOMPOSITION OF URANIUM MONOCARBIDE BY	AND STREET AT HIGH YEAR IN STREET
VAPOR PRESSURE TEST PMAC-378 N63-13092 07-07	RATES OF FREE VAPORIZATION OF SINGLE SILVER CRYSTALS AS FUNCTION OF CRYSTAL ORIENTATION, MODE
RHENIUN-111 CHLORIDE VAPOR PRESSURE AND STANDARD	OF FACE PREPARATION. CONTAMINATION AND TEMPERATURE N63-13830 09-23
HEAT AND ENTROPY OF SUBLIMATION - TRANSITION	KINETICS OF VAPORIZATION BELOW THE CRITICAL POINT
AROD-2757-1 N63-13435 08-07	GA-3633 N63-14208 09-11
VAPOR PRESSURE EFFECTS ON PHYSIOLOGIC STRAIN AND BODY MEAT STORAGE - THERMAL STRESS	INTERACTION OF LASER LIGHT WITH METAL - ELECTRON- OPTICS INTERACTION IN METAL VAPORIZATION RN-3560-PR N63-16968 11-25
AMRL-TDR-62-147 N63-13938 09-16	WAL-THE STATE OF THE STATE OF T
METAL DIAPHRAGN PRESSURE RELAY SYSTEM TO MEASURE VAPOR PRESSURES - TESTED WITH ARSENIC 111 OXIDE	THERMODYNAMIC STUDY OF TIN AND LEAD SULFIDES WITH MASS SPECTROMETER - VAPORIZATION OF ALLOYS AND
	COMPOUNDS AT HIGH TEMPERATURES
VAPOR PRESSURE OF ALKALI METALS - CESSUM, RUBIDIUM	COMPOUNDS AT HIGH TEMPERATURES NAOD-TR-60-782, PT. VII N63-14879 11-87

PRO HAS

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EXTREMAL QUESTIONS FOR SIMPLICIAL COMPLEXES - APPLICATION OF VARIATIONAL METHODS - ALGEBRAIC AND GEOMETRIC RESULTANTS M63-16529 14-20

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P

VECT

YEG

191921	1,3000
VAPORIZATION OF COMPOUNDS AND ALLOYS AT HIGH TEMPERATURES - MASS SPECTROMETRY, IONIZATION CROSS SECTIONS, DISSOCIATION, AND EVAPORATION N63-14880 11-07	VARIABLE STAR OBSERVED WITH PHOTOELECTRIC PHOTOMETER AND TELESCOPE - SPECTROGRAM N63-17881 14-05
DESIGN AND OPERATIONAL PERFORMANCE OF SODIUM FLASH VAPORIZATION FACILITY	POSSIBILITY OF HYPER-STAR AS LUMINOUS SOURCE IN LIGHT VARIATION OF RADIO SOURCE 3C273 - VARIABLE STAR N63-19768 19-05
NASA-TN-D-1661 N63-15695 12-27 ZINC OXIDE VAPORIZATION AND THERMODYNAMIC PROPERTIES UCRL-10708 N63-17156 15-18	VARIABLE THRUST THRUST MODULATION TECHNIQUES - COLD FLOW TESTS OF THREE VARIABLE-THROAT-AREA CONVERGENT-DIVERGENT NOZZLES NASA-TM-X-42 N63-12550 06-02
INFLUENCE OF RELEASE OF LATENT HEAT OF VAPORIZATION ON VERTICAL MOTION, KINETIC ENERGY, AND VORTICITY OF CYCLONE DEVELOPMENT AFCRL-63-623 N63-17998 16-21	VARIABLE-THRUST PROPULSION FOR SOFT-LAMOING VEHICLE NAVMEPS-7900 N63-13759 08-27
VAPORIZATION OF CHLORIDES OF ELEMENT IN FIRST LONG PERIOD OF PERIODIC TABLE - FORMATION AND	VARIABLE THRUST ROCKET ENGINE WITH CONSTANT COMBUSTION CHAMBER PRESSURE N63-23151 24-27
DISSOCIATION HEATS LA-2841 N63-18172 16-07 ABLATION HODE CRITERION FOR STONE METEOR -	VARIANCE ESTIMATION OF VARIANCES FOR RADIO DIRECTION FINDING EQUIPMENT N63-10415 01-08
VAPORIZATION AND MELTING - HEAT TRANSFER N63-18174 16-13 CORRELATION OF DISSOCIATION ENERGIES OF GASEOUS	POWER ENGINEERING AND AUTOMATION - INVARIANCE, STABILIZATION AND REPRODUCTION, PULSE-RELAY SYSTER FTD-TT-02-871/162 N03-10521 01-20
MOLECULES AND HEATS OF VAPORIZATION - ATOMIC AND NUCLEAR STRUCTURE WADD-TR-60-782, PT. XI N63-19150 18-07	VALIDITY CONDITIONS FOR RANDOM-VARIABLE-T IN THO-WAY CLASSIFICATION WITH UNEQUAL VARIANCES
HEAT OF VAPORIZATION OF DIPHENYLS, NAPHTHALENE AND ISOMERS OF TEAPHENYL EUR-301.D N63-19495 19-07	AROD-2579-13 N63-12095 05-20 STATISTICAL ANALYSIS OF SNAP-10A THERMOELECTRIC CONVERTER ELEMENT PROCESS DEVELOPMENT VARIABLES
MICROBALANCE TECHNIQUE FOR VAPORIZATION RATE ANALYSIS OF REFRACTORY SUBSTANCES AND DESCRIPTION OF ION PUMPING SYSTEM N63-19996 19-15	NAA-SR-7288 N63-12742 06-06 STATISTICAL ANALYSIS - ANALYSIS OF VARIANCE, REPEATED MEASUREMENTS DESIGN, DUAL CLASSIFICATION AND DISPROPORTIONATE SUBCLASS NUMBERS
OPTICAL METHOD FOR OBSERVING BREAKUP AND VAPORIZATION OF LIQUID JET - SCHLIEREN & SHADOW PHOTOGRAPHS NASA-CR-52081 N63-23558 24-27	SAM-TOR-62-149 N63-13589 08-20 TABLE OF MEAN SQUARE EXPECTATIONS & VARIANCE RATIOS FOR TESTING NULL HYPOTHESES IN ANALYSIS OF
WARACTOR BROADBAND VARACTOR PARAMETRIC AMPLIFIER -	VARIANCE FOR 2, 3, & 4-WAY CROSSED CLASSIFICATION NHL-1833
TRANSDUCER POWER GAIN, SINGLE & MULTIPLE VARACTOR AMPLIFIER PIBMRI-109-62 N63-18252 17-09	COMPARISON OF MEANS OF TWO POPULATIONS WITH UNKNOWN VARIANCES ARL-63-106 N63-20911 21-20
VARIABLE S COMPLEX VARIABLE S INDEPENDENT VARIABLE S RANDOM VARIABLE	VARIATION S ANNUAL VARIATION S DIURNAL VARIATION S FREQUENCY VARIATION S MAGNETIC VARIATION
VARIABLE GEOMETRY STRUCTURE INLETS WITH THROAT AND COML BYPASSES FOR MATCHING A TWO-DIMENSIONAL VARIABLE GEOMETRY NASA-MEMO-2-6-59E N63-10629 02-02	S SEASONAL VARIATION VARIATION METHOD TRAJECTORY OPTIMIZATION TECHNIQUE BASED ON THEORY
ANALYSIS OF VARIABLE GEOMETRY SPACE ERECTABLE STRUCTURES CONCEPT BASED ON RING-SUPPORTED	OF SECOND VARIATION AIAA PAPER-63-415 N63-20762 21-29
INTERLACED ARCH PRINCIPLES NSL-62-228 N63-12355 06-34 SUPERSONIC PERFORMANCE OF VARIABLE TWO-DIMENSIONAL	VARIATIONAL CALCULUS THEOREMS CONCERNING SLOWLY VARYING FUNCTIONS - EXTENSIONS OF ASYMPTOTIC BEHAVIOR OF LAPLACE TRANSFORM OF REGULARLY VARYING FUNCTIONS
INLETS DESIGNED FOR ENGINE-INLET MATCHING NACA-RH-E56H23 06-02 INVESTIGATION OF AIR-COOLED, PLUG-TYPE, VARIABLE-	MRC-369 N63-12390 06-20 VARIATIONAL CALCULUS FOR OPTIMIZING INTERPLANETARY ROUND-TRIP TRAJECTORIES
AREA EXHAUST NOZZLE AT HIGH TEMPERATURE NACA-RM-E57A07 N63-14762 11-02	MASA-TN-D-1660 N63-13793 09-20 SPACE AND TIME SYNTHESIS BY VARIATION METHOD FOR
ONE-DIMENSIONAL HYDROMAGNETIC FLOW WITH TRANSVERSE MAGNETIC FIELD - SIMPLE WAVE FLOW AND FLOW IN CHANNEL WITH SMALL AREA VARIATIONS	REACTOR CORE DESIGN PROBLEMS - REACTOR TECHNOLOGY N63-15264 12-23
MRC-269 N63-14945 11-20 CONTROL OF VARIABLE-GEOMETRY INLETS AT CONSTANT	CALCULUS OF VARIATIONS IN OPTIMIZATION OF GUIDANCE AND CONTROL SYSTEMS N63-15641 12-20
MACH NUMBERS WITH BLUNT LIP DIFFUSER NACA-RH-E57-G02 N63-20485 20-02	VARIATIONAL APPROACH TO CALCULATION OF CHARGE EXCHANGE CROSS SECTIONS FOR ADIABATIC COLLISION NASA-TN-D-1654 N63-16391 14-24
VARIABLE STAR	EXTREMAL QUESTIONS FOR SIMPLICIAL COMPLEYES -

16-05

16-05

N63-17880

VARIABLE STAR
DISCOVERY OF NEW VARIABLE STAR WITH UNUSUAL
VARIABILITY PERIOD /S 7901 CYGNI/
N63-17879

TABLE OF NEW VARIABLE STARS

5-05

E

-05

OF

-02

-27

-27

-08

TER

-20

20

28

.

06-22

09-23

SELF-PROPELLED VEHICLE
SPACE VEHICLE
TRANSPORT VEHICLE TRAJECTORY ANALYSIS USING ACCESSORY MINIMUM PROBLEM IN THE CALCULUS OF VARIATIONS NASA-TM-X-50251 N63-20209 20-29 S UNDERNATER VEHICLE
S WINGED VEHICLE
S WINGLESS VEHICLE VARIATIONAL PROBLEMS IN OPTIMIZATION OF CONTROL PROCESSES - SOVIET DATA PROCESSING N63-21086 21-20 VEIN SECTION PREMIARA CONTROL ON SOMETHING IN HERR CRANIAL BLOOD CIRCULATION ANALYSIS - VENOUS BLOOD OUTFLOW MECHANISM NASA-TT-F-163 12-16 SINGULARITIES IN VARIATIONAL PROBLEM OF LAGRANGE WITH INEQUALITIES BRL-1207 N63-22621 23-2 N63-15511 12-16 N63-22621 23-20 VELOCITY SA ANGULAR VELOCITY
SA FLOW VELOCITY
SA FLOW VELOCITY
SA HYPERVELOCITY
CF ACCELERATION
CF DECELERATION TRAJECTORY OPTIMIZATION USING CALCULUS OF VARIATIONS AND RELATIONSHIP TO BALLISTIC PERTURBATION THEORY VERDOCTES BUSTRY BUT 2001 N63-23149 24-29 VARIATIONAL PRINCIPLE
THREE-BODY RECOMBINATION RATE CONSTANTS FROM CURVE CF NOTION
HEATING UPON ENTRY INTO PLANETARY ATMOSPHERES FAOR
SUPERCIRCULAR ORBITING VELOCITIES OF VARIATIONAL THEORY N63-23097 24-07 N63-11071 03-33 VARIATIONAL PRINCIPLES OF MIXED BOUNDARY VALUE FOR GENERAL LINEAR ELASTIC SOLID VELOCITY-DEFECT LAW OF TURBULENT BOUNDARY LAYER N63-11304 03-11 NA3-23700 24-23 TIME OPTIMAL VELOCITY CONTROL OF A ROTATING SPACE BODY - GIMBALLED CONTROL MS-703 N63-11422 03-32 MATRIX METHOD APPLIED TO GIBBS VECTORS AND DVADICS
WITH APPLICATIONS TO FLIGHT DYNAMICS RADIAL DEFLECTION COMPONENTS OF THE ROTATIONALLY SYMMETRIC MOTION OF A CYLINDRICAL SHELL NAL-TR-850/13 N69-11443 03-33 N63-10513 RIESZ ANALYTIC THEOREM APPLIED TO MEASURES OF BOUNDARY VALUES OF VECTOR FUNCTIONS - VALUES IN PRESSURE FLUCTUATIONS IN A MEAK TURBULENT FIELD WITH A UNIFORM TRANSVERSE VELOCITY GRADIENT N63-11461 03-11 BANACH SPACE N63-13334 08-20 BOUNDARY VALUES OF ANALYTIC VECTOR VALUED FUNCTION N63-14478 10-20 EVALUATION OF FLAME HOLDERS FOR AFTERBURNERS WITH HIGH INLET VELOCITY NACA-RM-ESEDIO 06-02 ANALYSIS OF BANACH FUNCTION SPACES OF VECTOR VALUED FUNCTIONS GUIDANCE OF SPACECRAFT APPROACHING EARTH AT SUPERCIRCULAR VELOCITIES ON DESIRED PERIGEE NASA-TN-D-1607 N63-12592 MRC-328 N63-14513 10-20 N63-12592 VECTOR CONTROL TWO CONTROL FICATION SYMPOSIUM - BISTABLE ELEMENT, TWO-DIMENSIONAL JETS, FLOW VISUALIZATION, PROPORTIONAL CONTROL, ROCKET THRUST VECTORING SUBSONIC-DIFFUSER DATA - EXIT FLOW, BOUNDARY-LAYER CONTROL, AND INLET VELOCITY NACA-RM-L56F05 N63-13862 09-02 N63-13862 09-02 DISTRIBUTION OF CONCENTRATION, MASS FLOW AND VELOCITY OF SOLID PARTICLES /MAGNESIUM DXIDE AND ADAPTIVE STATE VECTOR CONTROL - SECTION 7, APPROXIMATIONS TO STATE VECTOR CONTROL MN-MPG-1529-TR-7 N63-14340 N63-14340 10-20 GLASS/ CONTROL OF ACCELERATION VECTOR OF POWERED FLIGHT USE OF MECHANICAL CHOPPER AND PULSED LINEAR ACCELERATOR TO STUDY, BY VELOCITY SELECTION, NEUTRON IMELASTIC SCATTERING N63-14189 TRAJECTORY VECTORCARDIOGRAPH ELECTROCARDIDGRAPHIC AND VECTORCARDIDGRAPHIC OBSERVATIONS OF THE HEART AT HIGH ALTITUDES HYDROMAGNETIC STABILITY AT FLUID VELOCITY-DISCONTINUITY N63-14258 SAM-TDR-62-87 DIAGNOSIS OF MITRAL LESIONS OF THE HEART BY THE COMBINED USE OF PHONO-, VECTOR-, AND BALLISTOCARDIOGRAPHY PREDICTION OF VELOCITY REQUIREMENTS FOR MINIMUM TIME RESPONSE ABORT TRAJECTORIES FOR MIDCOURSE GUIDANCE OF LUNAR FLIGHT NASA-TN-0-1655 N69-15052 11 N63-11841 JPRS-17171 ELECTROPLETHYSMOGRAPHY INVESTIGATION OF VOLUME CHANGE OF CEREBROSPINAL FLUID, AND VELOCITY CHANGE OF BLOOD CIRCULATION IN BRAIN NASA-17-F-157 N63-19910 12-16 RELATIONSHIP BETHEEN VEGETATION AND TERRAIN -SURFACE SHAPING FACTORS AND GEOMORPHOLOGICAL SHAPES JPRS-20888 N63-20800 21-17 VELOCITY CONTROL SYSTEM FOR TAPE RECORDERS
UTILIZING SPLIT-PHASE INDUCTION MOTORS
TR-63-1 N63-16165 THREE ASTRENS TORBULENT COUNDANT AFROSPACE VEHICLE
AMPHISIOUS VEHICLE
SALLISTIC VEHICLE
CENTAUR VEHICLE ABORT TECHNIQUES FOR MANNED SPACEFLIGHT AT LAUNCH. SUBORBITAL, ESCAPE AND SUPERORBITAL VELOCITIES -LUMAR LAUNCH & RENDEZVOUS M63-17167 15-32 FLIGHT VEHICLE
HYPERSONIC VEHICLE
LAUNCH VEHICLE
LUNAR SURFACE VEHICLE
MR TISTAGE VEHICLE OPTIMIZING VERTICAL ROCKET THRUST AT LARGE JET MACH NUMBER WHEN DRAG IS FUNCTION OF VELOCITY BRL-1194 N63-17441 15-20 LUMAR SURFACE VEHICLE
MULTISTAGE VEHICLE
NONLIFTING VEHICLE
POWER-LIMITED VEHICLE
RANGER LUMAR LANDING VEHICLE
SEA DRAGON VEHICLE
SEA DRAGON VEHICLE VELOCITY REQUIREMENTS FOR STOPOVER ROUND TRIP SPACEFLIGHT TO MARS FOR DEPARTURE DATES FROM 1971 TO 1977 RN-3474-PR N63-19409 19-20

HE IF

VENT

0

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VEN

VEN

N63-20183

DIRECT CONTACT AMONG GALACTIC POPULATIONS BY RELATIVISTIC INTERSTELLAR SPACEFLIGHT N63-20930 21-29 FEASIBILITY OF MICROMETEOROID VELOCITY DETECTOR NASA-TN-D-1977 N63-21271 21-12 REENTRY GUIDANCE AND CONTROL IN NEAR-EARTH ORBITS AND NEAR ESCAPE VELOCITY AS WELL AS IN DEEP SPACE AND AT VELOCITIES IN EXCESS OF ESCAPE VELOCITY AIAA PAPER 63-318 N63-21316 21-30 VELOCITY DISTRIBUTION APPROXIMATE EXPRESSIONS FOR BOUNDARY-LAYER
THICKNESSES WITH LONGITUDINAL VELOCITY GRADIENTS
FOR MAGNETOHYDRODYNAMIC ACCELERATION CHANNELS
AEDC-TDR-63-24
10-1: TEMPERATURE, VELOCITY, AND PRESSURE DISTRIBUTIONS IN STRUCTURE OF GASEOUS DETONATION WAVE N63-15704 VELOCITY AND PRESSURE DISTRIBUTION FOR UNSTEADY MOTION IN THREE-DIMENSIONAL VORTICES - NAVIER-STOKES EQUATION DYNAMIC FIELDS - STRESS AND VELOCITY DISTRIBUTIONS OF CONSTANTLY MOVING ENERGY SOURCE IN ELASTIC PLATES - ELASTODYNAMICS OF MOVING LOADS MRC-311 N63-16384 EXACT SOLUTIONS TO EQUATIONS GOVERNING VELOCITY, TEMPERATURE, AND PRESSURE DISTRIBUTIONS IN GASEOUS DETONATION MAVES - GAS DYNAMICS VELOCITY DISTRIBUTION IN TURBULENT BOUNDARY LAYER FLOW AROUND FLAT PLATE 17-11 THERMAL CONVECTION - FLUCTUATIONS IN VELOCITY, TEMPERATURE AND LINEAR STABILITY OF HORIZONTAL SURFACES 20-13 TURBULENT HEAT AND HOMENTUM TRANSFER FOR UNIFORM TURBULENT HEAT AND MUMERIUM TRANSFER FOR SALESHEE
VELOCITY AND TEMPERATURE GRADIENTS IN A FLOW FIELD
N63-20274 20-13 STABILITY OF SINGLE HUMP VELOCITY DISTRIBUTIONS IN COLLISIONLESS HOT PLASMA WITHOUT MAGNETIC FIELD EXPRESSED AS INTEGRAL EQUATION FREE STREAM CONTROL FOR LOW SPEED WIND TUNNEL -PULSATING FIELD, STATIC PRESSURES AND VELOCITY DISTRIBUTIONS FTD-TT-62-1476/162 N63-23728 24-10 CARTESIAN VELOCITY ERROR ASSOCIATED WITH FPS-16 RADARS AT MODMERA SAD-128 N63-23169 24-08 VELOCITY MEASUREMENT LANGMUIR PROBE AND VELOCITY MEASUREMENTS IN PLASMA JET - EFFECT OF IONIZATION AND DISSOCIATION ON SPACE-TIME CORRELATION MEASUREMENTS OF LOCAL MEAN VELOCITY IN MIXING REGION OF A JET ASRL-TR-1008 N63-16683 DOPPLER SYSTEMS WITH LINEAR TIME FUNCTIONS -VELOCITY MEASUREMENT - NAVIGATION N63-18109 16-22 RADAR FOR VELOCITY MEASUREMENT IN SPACECRAFT FOR LUNAR LANDING AIAA PAPER-63-351 AERODYNAMIC MEASURING TECHNOLOGY - PRESSURE AND TEMPERATURE PROBES, VELOCITY MEASUREMENTS, FLOM CHARACTERISTICS, AND GAS DYNAMICS

MACH NUMBER MEASUREMENTS IN HIGH VELOCITY WIND

AUTOMATIC MEASUREMENT OF FLOW VELOCITY VECTOR WITH BERYLLIUM-BRONZE SIPHON MEMBRANE N63-20810 - 21-15 VELOCITY MEASUREMENT OF AURORAL RAYS BY PHOTOELECTRIC PHOTOMETER - AURORAL SPECTROSCOPY 21-12 VELOCITY AND DIRECTION OF IONOSPHERIC DISTURBANCES IN F-2 LAYER FROM IONOSPHERIC STATION DATA N63-21940 22-12 GEOMAGNETISM SPARK VELOCITY MEASUREMENTS IN HYPERSONIC WIND N63-22335 23-11 VELOCITY METER CF ACCELEROMETER VELOCITY PROFILE CONCENTRATION AND VELOCITY PROFILES IN A STEFAN DIFFUSION TUBE UCRL-10421 N63-11177 03-15 STUDIES OF VELOCITY PROFILE, SKIN FRIGTION & HEAT-TRANSFER CHARACTERISTICS OF TRANSPIRATION-CODLED SURFACE N63-12692 06-11 VELOCITY AND ACCELERATION PROFILES OF ROCKET SLEDS USING ADVANCED TRACKS N63-13417 08-10 VELOCITY PROFILES IN KARMAN-POHLHAUSEN MOMENTUM INTEGRAL METHOD WITH SLIP BOUNDARY CONDITION -WALL EFFECTS SC-4752/RR/ N63-13502 08-11 HYDRODYNAMIC STABILITY AND CAVITY OSCILLATIONS -DISCONTINUOUS VELOCITY PROFILE AT THE UNDESTRUCTED CAVITY OPENING MIT-DSR-8951 N63-14041 VELOCITY PROFILES AT 5 AXIAL STATIONS IN THE HALF JET MIXING REGION - CORRELATION WITH THE THEORY OF CRANE FOR INCOMPRESSIBLE FLOW SC-4764/RR/ NA3-14202 09-11 CHARACTERISTICS WHICH HAVE SIGNIFICANT EFFECT ON TRANSITION PERFORMANCE OF V/STOL AIRCRAFT - POWER EFFICIENCY, VELOCITY PROFILE, DESIGN, WING PROFILE N63-14692 10-04 MATHEMATICAL MODEL FOR EXTREME VALUE OF WIND-VELOCITY PROFILE BASED ON MULTIVARIATE GAUSSIAN DISTRIBUTION OF HORIZONTAL COMPONENT NASA-TN-0-1813 TURBULENT FLOW VELOCITY PROFILE OF FLUID DISCHA FROM AN AXISYMMETRIC JET N63-19209 18-11 APPROXIMATE COMPUTATION OF VELOCITY PROFILE OF COMPRESSIBLE LAMINAR BOUNDARY LAYERS USING THO-DIMENSIONAL PARAMETERS FLIGHT TEST VELOCITY PROFILES FOR BELL 47G-38 HELICOPTER N63-19527 GNOME PROJECT - SHOCK WAVE PROPAGATION AND PARTICLE VELOCITY PROFILES N63-19709 19-23 PNE-104F VELOCITY FIELD INDUCED IN LIQUID BY ROTATING CON N63-22527 23-11 THREE-DIMENSIONAL TURBULENT BOUNDARY LAYERS CALCULATION OF VELOCITY PROFILES AND SHEAR STRESS ARC-CP-635 23-11 VELOCITY AND TEMPERATURE PROFILES AND SMIN OFFICTION IN SUPERSONIC TURBULENT COMPRESSIBLE ANNOTATED BIBLIDGRAPHY SRB-63-1 N63-23615 24-13 THREE-VENT PROBE FOR MEASURING FLOW FIELD PRESSURE AND TEMPERATURE - MEASURING APPARATUS

N63-20807 21-15

WITH 1-15 r 1-12 ICES -12 -11

-15

AT-D -11 EBS -10

11 ED 11 F OF 11

LE D4

13

1

DIHEDRAL HYDROFOIL FULLY VENTED SURFACE-PIERCING - HEAVING AND PITCHING HOTION IN LONG CRESTED IRREGULAR SEAS 8-958 N63-21266 21-04	DESIGN PARAMETERS FOR BALLISTIC INTERPLANETARY TRAJECTORIES - MARS AND VENUS DNE-MAY TRANSFERS JPL-TR-32-77 11-29
R-958 N63-21266 21-04 VENTILATION VENTILATED FLOW MODEL, CAVITY LENGTH AND DRAG	RADIATIVE ENERGY TRANSFER ON ENTRY INTO MARS AND VENUS - EMISSIVITY OF CARBON DIDXIDE AT HIGH TEMPERATURE
TRG-156-SR-1 N63-10751 02-11	ARF-A200-4 N63-15321 12-29
VENTILATORY RESPONSE TO CARBON DIOXIDE AND TO OXYGEN AFTER ACCLIMATIZATION TO CARBON DIOXIDE AMRL-TDR-62-136 N63-11755 04-16	MAGNETIC FIELD AND ROTATION PERIOD OF VENUS TG-230-T304 N63-16121 13-29
THERMAL INSULATION IMPROVEMENT DUE TO AIR FLOW THROUGH MATERIAL - AIR-VENTILATED SUIT FPRC/1202 No.3-11811 04-13	PLANETARY PHOTOGRAPHY - MULTICOLOR PHOTOMETRY OF THE MOON, MARS, VENUS, AND OTHER PLANETS M63-16246 13-05
PULSATION OF VENTILATED CAVITIES	PHYSICS OF PLANETS — INTERNAL STRUCTURE, SURFACES, AND ATMOSPHERES — MERCURY, VENUS, MARS, JUPITER, AND SATURN
VENTILATION OF NORMAL AND BLOCKED MIDDLE EAR -	AFCRL-63-457 N63-16280 13-23
EVALUATION OF INFLATION TECHNIQUES N63-12461 06-16	TERRAIN AND ENVIRONMENT OF VENUS R62SD153 14-29
FORCES ON SUPERCAVITATING HYDROFOILS WITH INTERNAL VENTILATION	ASTRONOMICAL ALMANAC, MAY-AUG 1963 - DATA FOR SUN, MODN, VENUS, SATURN, AND JUPITER
DTMB-1676 N63-13376 08-11	N63-17010 15-29
LOW DRAG SUPERCAVITATING HYDROFOIL SECTIONS - VENTILATED LIFTING SURFACES N63-16065 13-11	INFRARED PHOTOMETRIC CONTOUR MAPPING OF PLANET VENUS MASA-CR-50149 15-29
BIOLOGICAL PROBLEMS OF SPACE FLIGHT - CONTROLLING AIR SUPPLY OF CLOSED SYSTEMS N63-18943 18-16	VENUS - HIGH RESOLUTION MAP OF BRIGHTNESS
SAFETY - RADIATION, VENTILATION, & REACTOR HAZARDS CONTROL	TEMPERATURE FROM HALE TELESCOPE OBSERVATIONS NASA-CR-50464 N63-18340 17-29
UCRL-7254 N63-19640 19-16	PLANET VENUS - ATMOSPHERE, ROTATION INCLINATION, SURFACE, INTERNAL STRUCTURE, MAGNETIC FIELD FROM
EFFECTIVE THERMOCONDUCTIVITY OF VENTILATED SNOW N63-22398 23-13	MARINER R 2 SPACE PROBE NASA-CR-50073 N63-19961 19-29
DRY SCRUBBER UNIT FOR LOW-LEAK VENTILATION SYSTEMS UCRL-10953 N63-22830 23-23	SPACE BIOLOGY AND MEDICINE - EXTRATERRESTRIAL LIFE ON MARS AND VENUS N63-21547 22-16
AIR VENTILATED LIMING FOR PARTIAL PRESSURE	EARTH - VENUS TRAJECTORIES N63-21647 22-32
FPRC-MENO-187 N63-23766 24-15 ENTICATOR	MILLINETER MAYELENGTH OBSERVATIONS OF VEHUS & THE
VENTILATOR FOR DUST CONTROL USING LAMINAR FLOW SC-4905/RR/ N63-17642 16-10	AIRBORNE INFRARED RADIOMETER TO DETECT MATER VAPOR
ENUS CF PLANET	ON VENUS SM-42977 M63-22939 23-29
JPRS-16728 N63-10973 02-05	EARTH-VENUS INTERPLANETARY TRAJECTORIES NASA-CR-51681 N63-23029 24-32
RADAR SYSTEM STUDY OF VENUS BY ELECTROMAGNETIC RADIATION TECHNIQUE	MANNED SPACE FLIGHT TO MARS & VENUS IN DECADE 1970 N63-23232 24-32
ESL-SR-157 N63-12611 06-08	RATIONAL PROGRAM FOR PLANETARY EXPLORATION USING SPACE PROBES OF INCREASING SOPHISTICATION -
RADIO LOCATION OF PLANET VENUS BY SOVIET UNION - APRIL 1961 N63-13022 07-05	MERCURY, VENUS, AND MARS DATA REVIEW
COSMIC DUST EXPERIMENT ON MARINER II TO MEASURE FLUX OF INTERPLANETARY DUST PARTICLES BETMEEN EARTH AND VENUS 07-29	N63-23449 24-29 VENUS ATMOSPHERE RADIATIVE ENERGY TRANSFER ON ENTRY INTO MARS AND
RADAR EXPLORATION OF VENUS - DERIVATION OF THE ASTRONOMICAL UNIT AND VENUS ROTATION REFLECTION	VENUS ATROSPHERE ARF-1200-3 N63-10142 01-29
JPL-TR-32-280 N63-13484 08-08	SPECTROSCOPIC TEMPERATURE AND PRESSURE MEASUREMENT IN THE VENUS ATMOSPHERE
MICROMAYE OBSERVATIONS OF VENUS UTILIZING TWO- CHANNEL RADIO TELESCOPE MOUNTED ON MARINER II SPACECRAFT N63-13845 09-29	JPL-TR-32-251 N63-10245 01-29 ENTRY OF SPACE VEHICLES INTO PLANETARY ATMOSPHERES
SPACECRAFT N63-13845 09-29 LUNAR AND PLANETARY LABORATORY - PHOTOMETER,	RAD-TH-62-20, PT. 1 N63-10746 02-30
INFRARED SPECTRA OF VENUS, AND STELLAR SPECTROMETER N63-14008 09-05	MOLECULAR SPECTROSCOPY OF PLANETARY ATMOSPHERES - VENUS AND MARS - M63-12577 06-29
PHOTOMETRY OF INFRARED SPECTRA OF VENUS & CARBON DIOXIDE CONTENT OF ATMOSPHERE	VENUS ATMOSPHERE MODEL FOR PLANETARY ENTRY STUDIES JPL-TR-32-379 N63-13448 08-29
N63-14010 09-05	RETEOROLOGY OF MARS AND VENUS - THERMAL STRUCTURE
PLANETARY ENTRY RESEARCH FOR MARS AND VENUS, 1962- EQUILIBRIUM THERMOCHEMISTRY, DISSOCIATION, HEAT TRANSFER, SHOCK TUBES, VENUS IONOSPHERE	AND CIRCULATION OF ATMOSPHERE GCA-TR-63-6-N AG3-13843 O9-29
TIS-R62-S0-84 N63-14713 10-29	METEOROLOGY OF MARS AND VENUS - EFFECT OF CLOUD COVER ON RADIATION BALANCE OF MODEL ATMOSPHERES

METEOROLOGY OF MARS AND VENUS - EFFECT OF CLOUD COVER ON RADIATION BALANCE OF MODEL ATMOSPHERES

WANT WATERSTON ORDER 1 AND THE WOR	N63-14678	10-29	CHARGED PARTICLE MEASUREMENT IN VENUS
CHARACTERISTICS OF MARS AND VENUS FROM GAS DYNAMICS OF SPACE PROBE		785-51	MAGNETOSPHERE WITH GEIGER-MUELLER DETECTOR ON MARINER II SUI-63-6 N63-15085 11-32
	N63-14806	11-29	MARINER II SPACECRAFT AND VENUS PROBE - RADIATION
STRUCTURE OF LOWER ATMOSPHERE OF	VENUS N63-15506	12-29	MEASUREMENT JPL-TR-32-429 N63-16423 14-20
VENUS ATMOSPHERE PHYSICAL PROPERT	IES - PRESS	URE,	MARINER II SPACE PROBE REPORTS - VENUS PROBE NASA FACTS-B-4-63 14-32
	N63-15800	13-29	MARINER II SPACEFLIGHT TO VENUS - DATA ANALYSIS
RADIATION BRIGHTNESS TEMPERATURE ATMOSPHERE	OF VENUS		N63-19090 18-32
· AND STREET, AND AND AND ADDRESS OF THE PARTY OF THE PAR	N63-16277	13-29	POWER SUPPLY FOR MARINER SPACECRAFT-VENUS PROBE NASA-CR-50724 N63-19950 19-06
SEARCH FOR WATER VAPOR AND TRACE ATMOSPHERE JPL-TR-32-256	N63-16441		PLANET VENUS - ATMOSPHERE, ROTATION INCLINATION, SURFACE, INTERNAL STRUCTURE, MAGNETIC FIELD FROM
PHOTOCHEMISTRY OF VENUS ATMOSPHER SPECTROSCOPY AND IRRADIATION STUD			MARINER R 2 SPACE PROBE NASA-CR-50873 N63-19961 19-29
ATMOSPHERIC GASES NASA-TN-D-1984			SPACE EXPLORATION WITH SCIENTIFIC PROBES - MARINER R-2 VENUS PROBE
PLANETARY AERONOMY - ATMOSPHERIC	AIRGLOW OF	DARK	NASA-TM-X-50312 N63-21911 22-29
SIDE OF VENUS GCA-TR-63-1-N	N63-17314	15-05	VERMICULITE CF MICA
PLANETARY AERONOMY - ROLE OF INTE IN PLANETARY ATMOSPHERES - SODIUM			CF SILICATE EFFECTS OF LOAD PULSE ON SHOCK ABSORBING CHARACTERISTICS OF VERMICULITE CONCRETE AND
GCA-TR-63-4-N	N63-17317	15-12	POLYURETHANE PLASTIC DASA-1299 N63-12182 05-33
FLIGHT CONDITIONS IN ATMOSPHERE OF VENUS - ATMOSPHERE MODEL RM-3388-PR		17-20	VERTEX FUNCTION PROPERTIES OF VERTEX FUNCTIONS OF STRONGLY INTER- ACTING PARTICLES - RELATIONS BETWEEN MASS AND
ENVIRONMENT OF PLANETS IN SOLAR S			COUPLING CONSTANT - ANOMALOUS MAGNETIC MOMENT
MARS AND VENUS	LW WOLLD'T	18-29	VERSENE
THERMAL RADIATION FROM HOT GASES			AIR PURIFICATION AND CONTROL IN NUCLEAR SUBMARINES - STABILIZING EFFECT OF VERSENE FE-3
ATMOSPHERES OF MARS AND VENUS AIAA PAPER-63-455	N63-20136	20-28	SPECIFIC ON MONOETHANOLAMINE ABSORBER N63-14932 11-16
SPACE CAPSULES FOR DATA COLLECTION OF CHARACTERISTICS OF MARS 6 VENU NASA-CR-50956			VERTICAL AIR CURRENT STUDIES OF SECONDARY POWER GENERATED BY VERTICAL LIFT JETSTREAMS
ELECTRICAL CHARACTERISTICS OF ATM SURFACE OF VENUS FROM RADAR OBSER JPL-TR-32-423		22-29	MGL PAPER-28 N63-10026 01-11 CONTINUOUS-WAVE SONIC ANEMOMETER FOR MEASURING FLUCTUATION IN VERTICAL WIND VELOCITY AFCRL-63-203 N63-15663 12-15
VENUS FLY TRAP ROCKET MICROMETEORITE STUDY FROM VENUS F			EFFECT OF VERTICAL AIR MOTION ON ATMOSPHERIC
VENUS PROBE	N63-15505	12-29	DENSITY DETERMINATION FROM ROBIN BALLOON FLIGHT RM-3687-PR N63-19309 19-21
CF SPACE PROBE MARINER SPACECRAFT - VENUS FLIGHT NASA FACTS-D-62			WEATHER RESEARCH - CLOUD MASS AND PRECIPITATION, VERTICAL MOTION RESOLUTION, AND PROBABILISTIC FORECASTING N63-22241 23-21
MARINER SPACECRAFT - VENUS PROBE EXPLORATION	& SPACE N63-12359	06-32	VERTICAL DISTRIBUTION FILTERS WITH POLES HAVING EQUAL VERTICAL SPACING PIBHRI-1077-62 N69-12697 06-09
MARINER II MICROWAVE AND INFRARED	RADIOMETER N63-13151		VERTICAL DISTRIBUTION OF WATER VAPOR AT LOW
MARINER II DEEP SPACE TELECOMMUNI	CATIONS N63-13162	07-08	LATITUDES AS MEASURED WITH BALLOON-BORNE FROST- POINT HYGROMETER NRL-5817 N63-12698 06-21
INTERPLANETARY MEDIUM - FIELDS AN DATA FROM MARINER II VENUS PROBE	D PARTICLES	07-29	VARIATIONS IN VERTICAL DISTRIBUTION OF ATMOSPHERIC DENSITY FOR ALTITUDES UP TO 30-KM AFCRL-62-815 N63-14004 09-12
MARINER II SPACECRAFT - TRAJECTOR VENUS, TRACKING, AND MIDCOURSE CO	Y, INJECTION RRECTION N63-13596	N. 08-29	VERTICAL OZONE DISTRIBUTION AT AROSA, SWITZERLAND AFCRL-63-659 N63-17597 16-12
MARINER /VENUS 62/ FLIGHT TELECOM FOR DATA TRANSMISSION AND TRAJECT	HUNICATION	SYSTEM	FOG - RADIATION, ADVECTION AND AIR MASS FOG - VERTICAL DISTRIBUTION, GROWTH RATE AND CONTROL CONCEPT NASA-CR-50530 N63-18498 17-21
MARINER II VENUS PROBE - MAGNETOS DISTRIBUTION AND INTENSITY OF CHA MAGNETIC TRAPS	PHERE - SPA RGED PARTIC N63-14943	TIAL LES IN 11-29	VERTICAL TAIL EFFECT OF VERTICAL TAIL MODIFICATIONS ON STATIC STABILITY OF VTOL SUPERSONIC AIRCRAFT NASA-TM-X-519 N63-17165 15-04

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09

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VERY HIGH FREQUENCY VERY HIGH FREQUENCY LINEAR 4KW AMPLIFIER FA-5438 N63-13023 07-08	DETERMINATION OF ROCK CONDUCTIVITY FROM VERY LOW FREQUENCY WAVE PROPAGATION MEASUREMENTS AFCRL-63-383 N63-23581 24-08
LOW INSERTION LOSS, CAPACITIVELY SCANNED GONIOMETER FOR FARADAY ROTATION IN VERY HIGH FREQUENCY RANGE N63-15189 11-08	VESSEL S PRESSURE VESSEL
PREAMPLIFIER AND CONVERTER FOR VERY HIGH FREQUENCY RECEIVERS N63-17718 16-15	VESTIBULAR CANAL PHYSIOLOGICAL RESPONSE IN CATS FROM VESTIBULAR CANAL STIMULATION BY UNILATERAL CALORIC IRRIGATION CARI-63-3 N63-19888 19-16
VERY HIGH FREQUENCY RADAR ABSORBERS AND ANECHDIC ROOMS NASA-CR-50753 N63-19855 19-10	VESTIBULAR EFFECT PROBLEM OF VESTIBULAR DISTURBANCES PRODUCED IN A
ANTENNA AND RADIO WAVE PROPAGATION CHARACTERISTICS AT VERY HIGH FREQUENCY NEAR AND IN THE GROUND AFCRL-63-684 N63-20676 20-08	ROTATING ENVIRONMENT N63-10396 01-16 AROUSAL AND ITS EFFECTS ON HUMAN VESTIBULAR NYSTAGMUS INDUCED BY CALORIC IRRIGATION AND
TERRAIN INDUCED BEARING ERRORS IN VHF DIRECTION	ANGULAR ACCELERATIONS CARI-62-17 N63-10524 01-16
RAE-TRANS-1042 N63-23000 23-08	RESPONSE OF OTOLITH ORGANS OF CAT TO TILTED POSITION SAM-TOR-62-132 N63-13588 08-16
SYNCHROTRON EMISSION AS SOURCE OF VERY HIGH FREQUENCY AURORAL NOISE SEL-62-149/SUP/ N63-23659 24-28	EFFECT OF IONIZING RADIATION ON FUNCTION OF
ERY LOW FREQUENCY THREE-LOOP SUPERDIRECTIVE ANTENNA - VLF RECEPTION	VESTIBULAR ANALYZER JPRS-21280 N63-23005 24-16
NOIC-563 N63-10560 01-08 VERY LOW FREQUENCY RADIO NOISE	STEROIDS & CATECHOLAMINE IN HUMAN WASTE AFTER FLIGHT STRESS - EFFECT OF VESTIBULAR ORGANS ON EXCRETORY CONTENT
AFCRL-62-1140 N63-11694 04-08 PROPAGATIONAL PHASE VARIATION MEASUREMENTS AT VERY	NASA-CR-50501 N63-23010 24-16 CALORIC STIMULATION IN DECORTICATED CATS -
LOW FREQUENCIES AFCRL-63-44 N63-13694 08-08	VESTIBULAR REFLEXES SAM-TDR-63-61 N63-23811 24-16
MAGNETIC FIELD VARIATIONS AND VLF ELECTROMAGNETIC WAVE PROPAGATION AS INFLUENCED BY LIGHTNING DISCHARGES AFCR-02-786 N63-14094 09-23	VIABILITY MICROBES AND THE COSMOS - VIABILITY OF INDIVIDUAL CELLS OF A MULTICELLULAR ORGANISM JPRS-16402 N63-10640 02-29
LONG RANGE NAVIGATION - VERY LOW FREQUENCY RADIO SYSTEMS, SATELLITE NAVIGATION SYSTEMS, MACHETIC COMPASSES, INERTIAL NAVIGATION AND GYROSCOPES N63-14803 11-22	VIABILITY OF TERRESTRIAL MICRODRGANISMS IN A SIMULATED MARTIAN ENVIRONMENT ARF-3194-7 N63-11127 03-29 ULTRAHIGH VACUUM AND TEMPERATURE EFFECTS ON
LONG RANGE NAVIGATION SYSTEMS - VERY LOW FREQUENCY RADIO, INERTIAL, AND SATELLITE MAVIGATION SYSTEMS N63-14804 11-22	VIABILITY OF SPORE AND SOIL ORGANISMS N63-19474 19-16
ATMOSPHERIC RADIO NOISE, LIGHTNING DISCHARGE RADIATION, LIGHT POLARIZATION AND VERY LOW FREQUENCY RADIATION N63-18220 17-21	VIABILITY OF SPORES SUBJECTED TO ULTRAHIGH VACUUM, GAMMA RADIATION, AND ELEVATED TEMPERATURES NASA-CR-51102 N63-21109 21-16
OBSERVATORY FOR DETECTION OF WHISTLERS AND ATMOSPHERIC-EMITTED VERY LOW FREQUENCY RADIO WAVES N63-18224 17-10	VIBRATION CF FLUTTER CF OSCILLATION CF RESONANCE, RESONANT FREQUENCY ACOUSTICAL FIELDS NEAR ENGINE JETSTREAMS ~ LOADING
DAYTIME ATTENUATION COEFFICIENT OF VLF RADIO WAVES FROM ELECTRIC FIELD STRENGTH OF ATMOSPHERICS N63-18225 17-21	MGL PAPER-52 N63-10047 01-23 A COMPARISON OF SHOCK AND VIBRATION FOR AIR, RAIL,
WHISTLER AND VERY LOW FREQUENCY EMISSIONS FROM SALTHOLM, DENMARK, 1960 TO 1961 - DIURNAL AND SEASONAL VARIATIONS N63-19164 18-12	SEA, AND HIGHWAY TRANSPORTATION N63-10098- 01-22 VIBRATION DAMPING CAPACITY OF VARIOUS MAGNESIUM
VERY LOW FREQUENCY INFRARED SPECTROMETER DESIGN	ALLOYS 8M-RI-6116 N63-10410 01-18
AND PERFORMANCE N63-19399 18-15 GEOCYCLOTRON - VERY LOW FREQUENCY WAVE COUPLING TO TRAPPED PARTICLES IN THE IONOSPHERE AFSWC-TOR-63-35 N63-19891 19-24	APPLICATION OF VARIATIONAL MOTION EQUATIONS TO THE NONLINEAR VIBRATION ANALYSIS OF HOMOGENEOUS AND LAYERED PLATES AND SHELLS
VERY LOW FREQUENCY INFRARED SPECTROSCOPY ON TIN HALIDES N63-20522 20-07	NONLINEAR FLEXURAL VIBRATIONS OF SANDWICH PLATES AFOSR-1310 N63-10418 01-33
CONCEPTS OF ANTIPODAL FOCUSING AND ITS SIGNIFICANT USE IN VLF PROPAGATION N6S-TN-182 N63-20736 21-08	INTERNAL BODY MOVEMENTS RESULTING FROM EXTERNALLY APPLIED SINUSCIDAL FORCES OBSERVED BY X-RAY DEVICE AMRL-TDR-62-81 N63-10472 01-16
IONOSPHERIC ABSORPTION EFFECT ON VERY LOW FREQUENCY RADIO WAVE PROPAGATION AT HIGH LATITUDES	STUDY OF TANDEM HELICOPTER FUSELAGE VIBRATION R-275 N63-10473 01-33
AFCRL-63-856 N63-20918 21-09	DAMPING PROPERTIES OF NONMETALLIC MATERIALS -

MODELING STUDIES OF SUBSURFACE, VERY LOW FREQUENCY WAVE PROPAGATION IN LIQUIDS AND SOLIDS AFCRL-63-353 N63-21800 22-09

DAMPING PROPERTIES OF NONMETALLIC MATERIALS -TABULATION AND BIBLIOGRAPHY MADD-TR-60-540 N63-10649 02-19

HARMO U-106

VIBRA FERRA

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HAGNI PLATI HIT-

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AUT

SHALLON SPHERICAL SHELLS N63-10853 02-33	HOMOGENEOUS THIN CYLINDRICAL SHELLS
FLIGHT VEHICLE STRUCTURAL VIBRATION ANALYSIS AND CONTROL, DAMPING, ACOUSTICS	N63-12484 06-93 IN-PLANE VIBRATIONS OF FLAT SPINNING DISK
ASD-TDR-62-237 N63-10882 02-33	NASA-TN-D-521 N63-12590 06-33
EFFECTS OF AEROSPACE ENVIRONMENTS ON VIBRATION DAMPING TECHNIQUES AND MATERIALS	SWAGING OF URANIUM DIOXIDE EUR-117.E N63-12644 06-17
N63-10915 02-33	FLIGHT VEHICLE VIBRATION MEASUREMENT AND
SCALING LAWS FOR DAMPING NASA-TN-D-1467 N63-10987 02-33	PREDICTION BY STATISTICAL ANALYSIS ASD-TDR-62-973 N63-13063 07-33
RESPONSE OF A LINEAR TWO DEGREE OF FREEDOM SYSTEM UNDER DUAL EXCITATION, MACHINE VIBRATIONS, DAMPING TEAM-237 N63-10989 02-23	FATIGUE TESTING OF TURBINE BUCKETS - PART I, METHOD FOR VIBRATION, TEMPERATURE, AND STRESS TESTS N63-13235 07-33
FREE TRANSVERSE VIBRATIONS IN AN INFINITELY-LONG, LAYERED ELASTIC CYLINDER N63-10990 02-33	ONE-MINUTE TOLERANCE IN MAN TO VERTICAL SINUSOIDAL VIBRATION IN SITTING POSITION - RESPIRATION AMRL-TDR-62-121 N63-13421 08-14
STIFFNESS AND VIBRATION PREDICTION IN TRUSSES, MULTISTAGE CYLINDERS, AND CLUSTERED CYLINDERS N63-11064 03-33	THEORY FOR DYNAMIC RESPONSE OF ELECTRONIC EQUIPMENT UNDER VIBRATION AND ACQUISTIC EXCITATION ASD-TOR-62-614 N63-13505 08-33
VARIATIONAL METHODS IN PROBLEMS OF VIBRATION OF LIQUID-FILLED SHELLS	HIGH TEMPERATURE ENVIRONMENTAL TEST FACILITIES TO
AID-62-203 N63-11344 03-20	SIMULATE STRUCTURAL LOADING, VIBRATION, AND NOISE NAMC-ASL-1042 N63-13567 08-19
STABILITY REQUIREMENTS FOR VIBRATORY COMBUSTION IN A RESONANCE BURNER N63-11351 03-26	CAPACITIVE TRANSDUCERS FOR NARROW BAND VIBRATORY
CALCULATION OF VIBRATION IN SANDWICH CONSTRUCTION	DISPLACEMENT OUTPUT OF ANGULAR MOTION SENSORS - ENERGY DENSITY CALCULATION FOR PARALLEL PLATE TYPE
FROM DAMPING PROPERTIES OF CORES AND FACINGS FPL-1888 N63-11411 03-33	ESL-R-153 N63-13604 08-15
RADIAL DEFLECTION COMPONENTS OF THE ROTATIONALLY	VIBRATIONAL NONEQUILIBRIUM WITH NITROGEN IN LOW-
SYMMETRIC MOTION OF A CYLINDRICAL SHELL WAL-TR-850/13 N63-11443 03-33	AEDC-TDR-63-31 N63-13657 08-11
VIBRATIONS - FORMULAS FOR MODAL DENSITY, RESONANT	BAND STRENGTH OF VIBRATION SPECTRUM OF WATER N63-13681 08-05
FREQUENCIES & POINT IMPEDANCE OF CYLINDRICAL N63-11583 04-33	DYNAMIC STABILITY OF ELASTIC SYSTEMS SSD-TDR-62-154, VOL. II N63-13955 09-23
METHOD FOR CALCULATING PROBABILITY OF VIBRATIONAL TRANSITION IN DIATOMIC MOLECULES WIS-AF-20, SER. 3 N63-11641 04-20	UNIVERSITY OF SOUTHAMPTON RANDOM SIREN FACILITY - PHYSICS, NOISE, VIBRATION
BELL-MODE VIBRATIONS OF CONICAL NOZZLES	ASD-TDR-63-91 N63-14055 09-10
N63-11856 04-33	CHEMICAL RELAXATION & MOLECULAR DISSOCIATION FROM VIBRATIONAL HEATING
VIBRATIONS IN UNIFORM BEAM-COLUMNS BY TIMOSHENKO THEORY - EQUATIONS OF MOTION FOR BOOSTER VEHICLES	CAL-QM-1626-A-10 N63-14172 09-07
ERR-AN-110 N63-11918 04-33	NONLINEARITY EFFECTS IN SEVERAL CLAMPED-CLAMPED BEAM VIBRATION PROBLEMS NASA-TN-D-1872, REV. N63-14279 10-33
ELECTRICAL AND MECHANICAL INTERFERENCE AND MEANS OF NOISE ELIMINATION MR-005.09-1401.04 N63-12048 05-08	NASA-TN-D-1872, REV. N63-14279 10-33 NUMERICAL INTEGRATION OF CHEMICAL AND VIBRATIONAL
MR-005.09-1401.04 N63-12048 05-08 TURBULENT BOUNDARY LAYER FLOW OVER FLAT PLATE	RATE EQUATIONS IN NEAR EQUILIBRIUM FLOW AEDC-TDR-63-82 N63-14314 10-11
VIBRATING WITH TRANSVERSE STANDING WAVES N63-12196 05-11	FORCED VIBRATIONS OF ELASTIC CIRCULAR CYLINDRICAL
VIBROCARDIOGRAM ANALYSES RELATING PRECORDIAL	BODY OF FINITE LENGTH IN ACOUSTIC FLUID - PART II, CALCULATION METHOD N63-14490 10-33
VIBRATIONS TO LEFT VENTRICULAR BLOOD PRESSURES N63-12235 05-16	VIBRATIONAL WAVE FUNCTIONS AND OVERLAP INTEGRALS
LATERAL VIBRATION CHARACTERISTICS OF SCALE MODEL	OF VARIOUS BAND SYSTEMS AVCO-EVERETT RES. REPT147 N63-14571 10-23
SATURN SA-1 LAUNCH VEHICLE - RESONANT FREQUENCIES AND DAMPING	DYNAMICS OF PROPELLER REMOTE DRIVES - BENDING
NASA-TN-D-1593 N63-12246 05-30	VIBRATIONS, TORSIONAL VIBRATIONS DVL-197 N63-14662 10-03
EFFECT OF GRID AND CONSTRICTION FRICTION ON FLAME PROPAGATION VELOCITY, HEAT EXCHANGE AND ACOUSTIC SHOCK DISCONTINUITY FORMATION IN REACTIVE MEDIA N63-12266 05-26	STRUCTURAL LOAD SURVEYS ON TILT-WING VTOL AIRCRAFT AIRFRAME VIBRATORY LOADS OF VZ-II VTOL AND WING LOADS OF RESEARCH MODEL IN WIND TUNNEL TESTS
TEMPERATURE TRANSDUCER FOR IN-FLIGHT MONITORING OF SKIN PANEL SURFACE TEMPERATURES - EFFECTS OF	N63-14706 10-33 ROTOR-BLADE VIBRATORY LOADS - AERODYNAMIC LOADING
INSULATION AND VIBRATION ON ACCURACY ATL-D-811 N63-12288 05-15	THROUGH ALL FLIGHT PHASES N63-14707 10-33
VIBRATIONS FROM INSTANTANEOUS AND MILLISECOND-	NONLINEAR SYSTEMS, VIBRATION - ABSTRACTS N63-14749 11-33
DELAYED QUARRY BLASTS BM-RI-6151 N63-12349 05-12 VIBRATORY DUTPUT ANGULAR MOTION SENSORS	PRESSURE INDUCED SHIFTS OF INFRARED LINES IN VIBRATION-ROTATION ABSORPTION BANDS OF HCL AFCRL-63-430 N63-14771 11-23
ESL-R-137 N63-12366 06-15	SPHERICAL SHELL FREE AND FORCED VIRRATION -

NONLINEAR TRANSVERSE AXISYMMETRIC VIBRATIONS OF BREATHING VIBRATIONS IN HOMOGENEOUS OR NON-

6-33 6-33 6-17

7-33

7-33 DAL 3-16

ON 3-33

TO SE -10 Y YPE 1-15 --11 -05 -23

-10 OH -07

-33 AL -11 II. -33 5 -23

-03 FT 33 33

33

23

MARMONIC LOAD DISTRIBUTION	SET STATE OF
VIBRATIONAL RELAXATION IN HYPERSONIC NOZZLE FLOW -	INSTRUMENTATION AND ITS ROLE IN DEVELOPMENT OF NEW VEHICLES - VIBRATION N63-16089 13-15
FERRANTI MERCURY COMPUTER SOLUTIONS N63-14830 11-02	ACCELEROMETER SENSITIVITY TO DYNAMIC PRESSURE PULSE - VIBRATION N63-16090 13-15
FLAT PLATE VIBRATION IN FLOW FIELDS - MECHANISM OF SELF-EXCITATION R-62-36 N63-14833 11-33	EXPERIMENTAL VERIFICATION OF VIBRATION CHARACTERISTICS USING STATISTICAL TECHNIQUES - FLIGHT VEHICLES N63-16091 13-93
SURVEY OF AEROTHERMOELASTICITY - REENTRY VEHICLES, 1-15 AIRCRAFT, STRUCTURAL DYNAMICS, THERMAL STRESS, VIBRATION AND PANEL FLUTTER	TECHNIQUES OF ANALYSIS OF RANDOM AND COMBINED RANDOM-SINUSCICAL VIBRATION N63-16092 13-33
N63-14895 11-02	DIGITAL TECHNIQUE FOR SHOCK AND VIBRATION DATA ACQUISITION 13-33 18-33
PLATE IN PRESENCE OF TRANSVERSE MAGNETIC FIELD NIT-TR-397 N63-14964 11-03	REAL-TIME ANALYSIS OF RANDOM VIBRATION POWER DENSITY SPECTRA N63-16094 13-15
SINGLE-NUCLEON DAMPING OF VIBRATIONS IN DXYGEN OVER GIANT DIPOLE ENERGY RANGE N63-14975 11-23	THO NEW SPECTRAL ANALYZER SYSTEMS FOR HEASURING
INTERACTION OF ACOUSTIC OSCILLATORY PRESSURE FLUCTUATION MITH BURNING OF SOLID COMPOSITE PROPELLANTS - ANALYSIS OF COMBUSTION INSTABILITY	N63-16095 13-15 ACOUSTIC AND VIBRATION STANDARD ENVIRONMENTAL DATA ACQUISITION PROCEDURE N63-16096 13-15
74.1/2MAY23A 2190MYDEL W MG3-15035 11-26	DATA EXCHANGE PROGRAM - VIBRATION N63-16097 13-17
CONFORMAL TRANSFORMATION METHOD APPLIED TO NATURAL FREQUENCY OF AXIAL SHEAR VIBRATION OF PRISMATIC BARS N63-15060 11-19	ENVIRONMENT ANALYSIS PROGRAM /ENVANAL/ - DATA EXCHANGE PROGRAM - VIBRATION N63-16098 13-01
MODAL RESPONSE IN COMPLEX PLANE OF PROPAGATION CONSTANT IN RECTANGULAR GUIDE WITH TRANSVERSELY MAGNETIZED LOSSLESS FERRITE 1 N63-15066 11-09	ANALYSIS AND EVALUATION OF ENVIRONMENTAL FACTORS - ARMY PROGRAM - VIBRATION N63-16099 13-01
LONGITUDINAL FORCED VIBRATION OF PARTIALLY FILLED TANKS - LIQUID DYNAMICS N63-15260 12-33	HUNAN HEARING AND SPEECH DURING WHOLE-BODY VIBRATION - RESEARCH ON LOW FREQUENCY VIBRATION
HUMAN TOLERANCE AND PERFORMANCE UNDER SEVERE TRANSVERSE VIBRATION - PHYSIOLOGICAL EFFECT	EFFECTS ON HUMANS 03-3512-3 N63-16174 13-14
ER-12838 N63-15793 13-14	MOTION EQUATIONS FOR VIBRATION OF THIN RINGS JPL-TR-32-261 N63-16442 14-33
RESPONSE LOAD RECORDER TO MEASURE STRAIN FATIGUE OF POINT ON RESONANT STRUCTURE OF FLIGHT VEHICLE - ESTIMATION OF ACQUISTIC FATIGUE DAMAGE ASD-TDR-62-165, VOL. II N63-15879 13-33	PHYSIOLOGICAL AND MECHANICAL RESPONSE OF HUMAN TO LONGITUDINAL WHOLE-BODY VIBRATION AS DETERMINED BY SUBJECTIVE RESPONSE
SYMPOSIUM ON SHOCK, VIBRATION, AND ASSOCIATED ENVIRONMENTS. N63-16076 13-33	MRL-TDR-62-66 N63-16472 14-14 LANTHANIDE ION SPECTRA IN CRYSTALS - LATTICE
UTILIZATION OF DYNAMICALLY SIMILAR STRUCTURAL HODELS IN PREDICTING VIBRATION RESPONSES OF FLIGHT	VIBRATION OF LANTHANUM BROWIDE AND CHLORIDE AROD-2099-13 N63-16520 14-25
VEHICLES N63-16077 13-33 ESTIMATION OF SOUND-INDUCED VIBRATIONS BY ENERGY	DYMANIC SINULATION STUDIES OF SHOCK AND VIBRATION EFFECTS ON SURFACE VEHICLES - STRUCTURAL RESPONSE TO IMPACT FORCES 14-33
HETHODS - APPLICATION TO TITAN MISSILE N63-16078 13-33	VIBRATIONAL-NONEQUILIBRIUM FLOW OF NITROGEN IN
ESTIMATION OF NOISE LEVEL AT SURFACE OF ROCKET- POWERED VEHICLE N63-16079 13-23	NASA-TN-D-1810 N63-16745 14-11 SHOCK, VIBRATION, AND ASSOCIATED ENVIRONMENTS AND
RANDOM FATIGUE DATA APPLICABLE TO RANDOM VIBRATION LOADING N63-16080 13-33	ENVIRONMENTAL TESTS OF STRUCTURES N63-16750 14-01
GENERALIZED RESPONSE EVALUATION PROCEDURE FOR MULTIDEGREE SPRING MASS SYSTEM - VIBRATION N63-16081 13-33	SIMULATING THE DAMAGING EFFECTS OF SMOCK AND VIBRATION ENVIRONMENTS N63-16751 14-33
RESPONSE OF LIGHTLY DAMPED STRUCTURES TO RANDOM PRESSURE FIELD 13-33	RELATIONSHIP OF VIBRATION ENVIRONMENT DATA TO SPECIFICATION CRITERIA N63-16754 14-02
SPATIAL CORRELATION IN ACOUSTIC-STRUCTURAL COUPLING AND ITS EFFECT ON STRUCTURAL RESPONSE	PREPARATION AND ANALYSIS OF HUNSON ROAD-TEST TAPES FOR LABORATORY VIBRATION ENVIRONMENT TESTS N63-16755 14-02
PREDICTION TECHNIQUES N63-16083 13-33 ROAD TRANSPORT DYNAMICS N63-16084 13-17	VIBRATION DESIGN PROCEDURES AND ENVIRONMENTAL TESTING OF ORBITING ASTRONOMICAL OBSERVATORY
PRACTICAL RANDOM VIBRATION MEASURING TECHNIQUES	M63-16756 14-32
N63-16085 13-33	SHOCK AND VIBRATION ENVIRONMENT TESTS - OPTIMIZATION OF PROCEDURE 463-16757 14-17
N63-16086 13-33	RELATIONSHIP BETWEEN RANDOM VIBRATION TESTS AND FIELD ENVIRONMENT N63-16762 14-10
AUTOMATIC MECHANICAL IMPEDANCE MEASURING INSTRUMENTATION SYSTEM N63-16087 13-15	ENVIRONMENTAL TESTING OF HORIZONTAL VIBRATION USING GREASE TO LUBRICATE SLIDING PLATE
AIRBORNE VIBRATION SPECTRUM ANALYSIS - TECHNIQUES	M63-16774 14-10

AIRBORNE VIBRATION SPECTRUM ANALYSIS - TECHNIQUES

MICROWAVE RESEARCH - ACOUSTIC WAVE AMPLIFICATION, OPTICAL MASERS, FERRITE NONLINEAR PROPAGATION ML-1060 N63-22911 23-25

N63-23044 24-06

ENERGY-STORAGE HYDRAULIC SYSTEMS FOR VIBRATION

STATISTICAL CHARACTERISTICS OF FORCED VIBRATIONS

AIBI

VI

PREDICTION AND MEASUREMENT OF NATURAL VIBRATIONS OF MULTISTAGE LAUNCH VEHICLES N63-16800 14-30	MODE VIBRATIONS OF CONICAL NOZZLES NASA-CR-50692 N63-19267 18-01
VIBRATIONAL RELAXATION IN OXYGEN AT HIGH	NONEQUILIBRIUM FLOW OVER A CONE - VIBRATIONAL RELAXATION EFFECTS
TEMPERATURE TG-230-T330 N63-16948 14-11	BRL-1203 N63-19642 19-U
FREE SPHEROIDAL VIBRATION OF MATHEMATICAL MODELS	VIBRATIONS OF THIN SHELLS - ANNOTATED BIBLIOGRAPH SB-63-43 N63-19776 19-11
OF EARTH AT LONG PERIODS LAMONT GEOL. DBS. CONTR606 N63-17502 16-12	VIBRATION-ROTATION LINE STRENGTH AND WIDTH IN
VIBRATION MODES AND RESONANT VIBRATION OF BETA CEPHEI AND BETA CANIS MAJORIS - STAR	HYDROGEN CHLORIDE AND HYDROGEN IODIDE AFCRL-63-667 N63-19909 19-2)
N63-17697 16-29	THERMAL EXPANSION AND ATOMIC VIBRATION AMPLITUDES FOR TITANIUM CARBIDE, TITANIUM NITRIDE, ZIRCONIUM
SPHEROIDAL VIBRATIONS OF EARTH AT LONG PERIODS - RIGIDITY OF EARTH CORE N63-17710 16-12	CARBIDE, ZIRCONIUM NITRIDE, AND PURE TUNGSTEN C-17 N63-19922 19-18
ELECTROENCEPHALOGRAPHY IN SIMULATED STRESSES OF SPACE FLIGHT WITH REFERENCE TO VIBRATION PROBLEMS NASA-CR-50206	PERTURBATION TECHNIQUES FOR RANDOM VIBRATION OF LINEAR SYSTEMS N63-20105 20-23
INFRARED EMISSION STUDIES OF VIBRATIONAL	RESONANCE DAMPING FOR THIN, VIBRATING PLATES - CORRELATION OF DYNAMIC VISCOELASTICITY & THIN
RELAXATION IN SIMPLE MOLECULES	PLATE THEORIES IN MATERIALS MECHANICS ASD-TDR-63-411 N63-20305 20-31
provided control of section 1 of the control of the	MORE TO WAR AND THE SELECTION THE SELECTION TO SELECT THE SECTION OF SELECTION OF S
YIBRATION ENERGY LEVEL AND NOISE REDUCTION IN FLIGHT VEHICLES N63-17942 16-23	BENDING AND VIBRATION OF ISOTROPIC RECTANGULAR PLATE WITH HINGED SLOT N63-20467 20-33
HELICOPTERS - ROTOR AERODYNAMICS, PROPULSION AND DRAG, STABILITY AND CONTROL, STRESSES AND LOADS,	EQUATIONS GOVERNING FREE VIBRATIONS OF THICK, COMPOSITE, ORTHOTROPIC, CIRCULAR, CYLINDRICAL SANDWICH SHELLS
VIBRATION, AND FLUTTER N63-17987 16-04	RE-165 N63-20615 20-33
TRANSITION PROBABILITY FROM MOLECULAR SPECTRUM - VIBRATIONAL QUANTUM NUMBERS - VACUUM ULTRAVIOLET TRANSITIONS - N63-18009 16-23	RESPONSE OF COMPLEX STRUCTURE TO RANDOM VIBRATIONS AND VIBRATORY LOADING N63-20879 21-33
ANALYSIS OF STRUCTURAL DAMPING FOR CONTROL OF VIBRATION AND NOISE	DYNAMIC ENVIRONMENT AND MECHANICAL PROBLEMS - VIBRATION LOAD AND STRUCTURAL RESPONSE TO VIBRATION N63-20881 21-33
NASA-CR-50343 N63-18147 16-23	AERODYNAMIC DAMPING OF 0.02 SCALE SATURN SA-1
VIBRATION AND SHOCK LOAD TESTING OF HORIZON SENSOR MOUNTING AND DOME	MODEL VIBRATING IN FIRST FREE-FREE BENDING MODE NASA-TN-D-1956 N63-21057 21-02
NASA-CR-50482 N63-18158 16-33	INFLUENCE OF LOW-FREQUENCY VIBRATION UPON SPEECH
STRESS-STRAIN DISTRIBUTION OF A VISCOELASTIC SOLID - TORSIONAL VIBRATION OF CIRCULAR CYLINDER WITH RIGID END MOUNTINGS	TRANSMISSION AMRL-TDR-63-49 N63-21059 21-08
EM-13-14 N63-18182 16-33	PREDICTION OF STRUCTURAL RELIABILITY IN FLIGHT VEHICLE MODEL - RESPONSE TO ACOUSTIC VIBRATIONAL
EFFECT OF ROCKET ENGINE NOISE AND VIBRATION FIELDS ON PERSONNEL AND GROUND STRUCTURES - ACOUSTICS	STRESS ASD-TDR-62-801 N63-21115 21-02
N63-18244 17-23	VIBRATIONAL AND DISSOCIATION NONEQUILIBRIUM IN
PRESSURE PULSES, SHOCK AND VIBRATORY LOADING ON LAUNCH VEILE CONNECTORS - HEAT ENVIRONMENT, VACUUM AND RADIATION EFFECTS ON CONNECTOR GASKETS	DIATOMIC GAS - SUPERSONIC AXISYMMETRIC SHOCK WAVE AIAA PAPER 63-439 N63-21164 21-11
MASA-CR-50562 N63-18323 17-17	AIRCRAFT BUFFETING CAUSED BY OPEN CAVITIES EXPOSED TO AIR FLOW - VIBRATION AND FLEXURE MODES
DETERMINATION OF FREE, TOROIDAL AND SPHEROIDAL OSCILLATIONS OF GRAVITATING SOLID SPHERE -	RAE-TH-AERO-754 1 N63-21299 21-02
MATHEMATICAL ANALYSIS ASSUMING RADIAL SYMMETRY NASA-CR-50054 N63-18419 17-12	SHOCK WAVE STRUCTURE WITH ROTATIONAL AND VIBRATIONAL RELAXATION N63-21573 22-24
STANDING DETONATION WAVES - HYDROGEN-DXYGEN IGNITION DELAY - VIBRATIONAL RELATION EFFECTS - TWO-DIMENSIONAL EFFECTS IN GASEOUS DETONATIONS N63-18550 17-11	PREDICTION OF ROCKET VEHICLE ENVIRONMENT - STATISTICAL ANALYSES OF STRUCTURAL CONFIGURATION IN VIBRATION NASA-TN-D-1836 N63-21889 22-33
CHEMICAL REACTIONS IN SUPERSONIC NOZZLE FLOWS -	COMMAND RECEIVER SYSTEMS TEST AND MEASUREMENTS
VIBRATIONAL RELAXATION - ELECTRON-ION RECOMBINATION - SUDDEN FREEZING ANALYSIS	OF BANDWIDTH AND FREQUENCY RESPONSE, TEMPERATURE AND VIBRATION
N63-18573 17-07	CARCON REDUCTION TO A PROPERTY OF THE PROPERTY
LANDAU DAMPING OF ACOUSTIC VIBRATIONS IN PLASMAS — CESIUM AND POTASSIUM PLASMAS M63-18741 17-24	FLIGHT SHOCK & VIBRATION DATA OF ECHO SATELLITE VERTICAL TESTS NASA-TN-D-1908 N63-22711 23-02
EFFECT OF SONIC & ULTRASONIC VIBRATIONS IN	MICROWAVE RESEARCH - ACOUSTIC WAVE AMPLIFICATION,
The second of th	TOOUTH TOOLS TO THE MALE WITH THE TOOLS TOOLS TOOLS

SIMULATION NASA-CR-51737

18-18

EFFECT OF SONIC & ULTRASONIC VIBRATIONS IN CONTROLLING GRAIN SIZE OF FERROUS ALLOYS DMIC-MEMO-166 N63-19030 1

VIBRATIONS OF ORTHOTROPIC THICK CYLINDRICAL SHELLS R-5273 N63-19097 18-33

AERODYNAMIC AND STRUCTURAL DESIGN OF ROCKET NOZZLE OPERABLE UNDER SEPARATED FLOW CONDITIONS - BELL

10-Q

19-11 RAPH 19-33

19-23 UDES NIUM 19-11 OF 20-23

0-33 0-33

0-33 TONS 1-33

-33

-02 H

-02

11 ED 02

24

13

.

2

OF ELASTIC AIRCRAFT WING ACTED ON BY ATH	OSPHERIC	VEHICLES N63-16077, 1	3-3
TURBULENCE FT0-TT-63-750/162 ATTENT OF N63-233	92 24-03	PHASE MEASUREMENT IN VIBRATION TESTING	3-3
LATTICE VIBRATION DISTRIBUTION AND SPECI OF BI-METALLIC REGULAR LATTICE RSIC-81 N63-235	14-5-113	HUMAN VIBRATION AND IMPACT ISOLATION WITH FULL LENGTH AIR BAG RESTRAINT SYSTEM	ioi
VIBRATION TEST OF PERSHING MISSILE SYSTEM TACTICAL SHIPPING AND STORAGE CONTAINERS RT-TR-63-6		RM-146 N63-16695 1 RELATIONSHIP BETWEEN RANDOM VIGRATION TESTS AM FIELD ENVIRONMENT N63-16762 1	140
LATTICE VIBRATION OF BRASS ALLOY BODY-CE CUBIC CRYSTALS WITH TWO ATOMIC SPECIES RSIC-79 N63-237	NTERED	MULTIPLANE VIBRATION TESTING TECHNIQUES FOR FL EQUIPMENT - FIELD ENVIRONMENT RELIABILITY N63-16763 1	
ORDER & DISORDER AND LATTICE VIBRATIONS BINARY ALLOYS	IN 2214	VACUUM TECHNIQUE FOR ATTACHING A TEST FIXTURE A VIBRATION EXCITER N63-16765 1	TO
RSIC-80 N63-237	FARANTS -	ENVIRONMENTAL VIBRATION AND ACCELERATION TESTS ON ROCKET SLED TEST TRACK N63-16766	
FORBIDDEN TRANSITIONS ON SPECIFORBIDDEN TRANSITIONS N63-213	06 21-23	VIBRATION TESTING OF R8-50 AIRCRAFT N63-16768 1	14-3
BIOLOGICAL EFFECTS OF VIBRATION INCLUDIN REVIEW AND CHRONOLOGICAL BIBLIOGRAPHY N63-215		IMPEDANCE IN VIBRATION TESTING OF SPACECRAFT LAUNCH VEHICLES N63-14770 1	14-3
MORPHOLOGICAL CHANGES IN PERIPHERAL NERV FROM EFFECT OF VIBRATION JPRS-21053 N63-220		LOW-FREQUENCY VIBRATION PROPERTIES OF NET CREW SEAT SYSTEM ASANDO-TM-63-31 N63-16827	
FACTORS AFFECTING HUMAN VISION DURING VE VIBRATION	HICULAR	AERGELASTICITY - GROUND RESONANCE TEST METHODS DETERMINING NATURAL VIBRATION MODES OF AIRCRAF	S FO
IBRATION ISOLATOR VIBRATION ISOLATION MOUNTS USED IN SHIP AND MACHINERY — CHARACTERISTICS AND DESI STEEL AND RUBBER MOUNTS		THEORETICAL BASIS FOR MECHANICAL IMPEDANCE SIMULATION IN SHOCK AND VIBRATION TESTING OF MECHANICAL STRUCTURES	
JPRS-21021 1111 100 211 2 231 23 N63-213	85 22-19	NASA-TN-D-1854 N63-18888 N	395
BRATION HEASUREMENT REDUCTION AND ANALYSIS OF DATA FROM SHOC RANDOM-TRANSIENT VIBRATION MEASUREMENTS N63-208		CONICAL SANDWICH DISCS WITH RADIAL SYMMETRY - VIBRATION TESTING	
ANALYTICAL DEVELOPMENT AND COMPUTATIONAL FOR FLUTTER AND VIBRATION ANALYSIS BY CO		DYNAMIC ENVIRONMENTS AND ENVIRONMENTAL TESTIM	6 - 21-
METHOD SSD-TDR-63-157 N63-225	68 23-33	SINUSOIDAL SWEEP VIBRATION TEST FOR QUALIFICAT OF SPACECRAFT STRUCTURES - WAVEFORM DISTORTION	TION A
DELTA LAUNCH VEHICLE FLIGHT VIBRATION DA NASA-TN-D-1683 N63-231		MASA-TH-D-1763	22-
VIBRATION CHARACTERISTICS OF PRESSURIZED THIN-WALLED CIRCULAR CYLINDERS PARTLY FI WATER		The state of the s	23-
NASA-TR-R-145 N63-233	STA FRA	STATIC VIBRATION TESTS OF SAILPLANES WITH ELECTRONIC MEASURING APPARATUS N63-22270	23-
RANDOM VIBRATION STUDIES OF COUPLED STRU ELECTRONIC EQUIPMENTS ASD-TDR-63-205	24 24-09	1 CO. L. C.	3461
BRATION HEASURING APPARATUS ELECTRODYNAMIC MOVING COIL METER FOR MEA		IS-662 N63-21653	
EXPLOSION VIBRATIONS TIL/T-5280 N63-123		VIBROCARDIDGRAM ANALYSES RELATING PRECORDIAL VIBRATIONS TO LEFT VENTRICULAR BLOOD PRESSURE	S
AUTOMATIC DEVICE FOR REGULATING COMBUSTI STABILITY BASED ON AMPLITUDE OF COMBUSTI VIBRATIONS N63-140	ON	M63-12235 MEASUREMENT OF PRE-EJECTION AND EJECTION CARD CONTRACTION TIME BY THE VIBROCARDIOGRAM	TAC
TWO NEW SPECTRAL ANALYZER SYSTEMS FOR ME VIBRATION DATA IN FREQUENCY DOMAIN. N63-160	452-7544	VICKERS VALIANT BOMBER	
VIBRATION MEASURING APPARATUS FOR MEASUR INTENSITY OF SEISHIC WAVE SHOCKS AS FUNC	ING TION OF	WIND TUNNEL STUDY OF AIR BRAKE CONFIGURATIONS MALF-MODEL OF VICKERS VALIANT BOMBER ARC-CP-621 N63-22853	23-
MAGNITUDE N63-187 BRATION TESTING VIBRATION TESTING OF LIQUID OXYGEN PROPE N63-141		VICTOREEN IGMIZATION CHAMBER MEASUREMENT OF HIGH INTENSITY GAMMA RADIATION DOSINETRY, ACCELERATORS, VICTOREEN IGNIZATION CHAMBER	123
FLIGHT VIBRATION TESTING OF C-130A AIRCR ASD-TDR-62-267 N63-149	APT	UCRL-7223 N63-14599 ENERGY DEPENDENCE CALIBRATIONS IN 60 KEY TO	10-
UTILIZATION OF DYNAMICALLY SIMILAR STRUC MODELS IN PREDICTING VIBRATION RESPONSES	TURAL	180 KEV RANGE OF VICTOREEN IONIZATION CHAMBER USING X-RAY MACHINE OF VARYING DUTPUT HASL-183	72

FRIVI C1 ST SO WI EM OP OF AR VI B1 ON CI-CCO ON CI-CCO

VIDEO DATA VIDEO DECODERS FOR USE WITH AIR TRAFFIC CONTROL RADAR BEACON SYSTEMS NA3-23518 24-09	CU-15-62-ONR-266/76/-CE N63-11873 04-33
RADAR BEACON SYSTEMS N63-23518 24-09 VEDICON	RESPONSE OF SEMI-INFINITE, CYLINDRICAL, VISCOELASTIC SHELL TO LONGITUDINAL IMPACT USING MEMBRANE THEORY ASSUMPTIONS
MINIATURE ELECTROSTATIC VIDICON CAMERA SELWS-E-104 N63-10208 01-15	CU-2-63-ONR-266/34/-CE N63-18881 18-33
NIMBUS SATELLITE - ADVANCED VIDICON CAMERA SUBSYSTEM - CLOUD PICTURES N63-18618 17-30	STRESS ANALYSIS OF VISCOELASTIC CYLINDER AROD-1892-5 N63-19358 18-33
BIOCHEMICAL ANALYSIS OF MARTIAN SOIL BY VIDICON MICROSCOPY N63-19483 19-15	PLANE WAVE PROPAGATION IN SEMI-INFINITE THIN VISCOELASTIC ROD AND PROPAGATION OF CYLINDRICAL WAVE FROM CYLINDRICAL CAVITY OF FINITE RADIUS
IMPROVING CONTRAST OF MILITARY TARGET FOR APPLICATION OF TELEVISION GUIDANCE SCHEME -	A&ES-63-1 N63-21414 22-33 LONGITUDINAL IMPACT OF SEMI-INFINITE CIRCULAR
VIDICON SENSOR RE-TR-63-3 N63-21445 22-22	VISCOELASTIC CYLINDER CU-3-63-ONR-266/34/-CE N63-29133 24-33
VINTIS THEORY DIFFERENTIAL CORRECTION FOR VINTI ACCURATE INTERMEDIARY ORBIT	APPARATUS FOR MEASURING STRESS RELAXATION MODULUS IN SHEAR OF VISCOELASTIC MATERIALS BRL-MEMO-1498 N63-23697 24-33
NASA-TN-D-1445 N63-10868 02-29	VISCOELASTICITY
SATELLITE ORBIT COMPUTATION PROGRAM FOR IZSAK SECOND-ORDER SOLUTION OF VINTI DYNAMICAL PROBLEM NASA-TW-D-1539 N63-12928 07-29	EFFECT OF A MOVING LOAD ON A VISCOELASTIC HALF- SPACE
VINYL POLYMER	CU-1-62-ONR-266/34/-CE N63-10646 02-23 APPROXIMATION IN PROBLEMS OF WAVE PROPAGATION IN
VINYL PLASTISOLS FOR USE IN NEUTRON SHIELDING SYSTEMS	COMPLEX VISCOELASTIC MEDIA CU-2-62 N63-10647 02-23
LAMS-2800 N63-13372 08-17	MOLECULAR THEORY OF THE VISCOELASTICITY OF A
/INYLIDENE FLUORIDE VULCANIZATION OF FLUORINE-CONTAINING POLYMERS - MEXAFLUOROPROPYLENE-VINYLIDENE FLUORIDE COPOLYMER,	THREE-DIMENSIONAL HYDROGEN-BONDED NETWORK N63-10703 02-07
VITON-A RUBBER N63-13244 07-07	CELLULOSE AS A VISCOELASTIC MATERIAL - HYDROGEN BONDING THEORY N63-10737 02-07
NONUNIFORM SCALING OF AN APPROXIMATE HYDROGEN	MECHANICAL PROPERTIES OF VISCOPLASTIC SOLIDS
MOLECULAR ION WAVE FUNCTION MIS-TCI-4, SER. 3 N63-10502 01-07	IER SER. 175, ISSUE 1 N63-10894 02-33
DEVELOPMENT OF EXPECTATION VALUE RELATIONSHIPS FOR ONE AND TWO ELECTRON CENTRAL FORCE PROBLEMS BY USE	ERROR ANALYSIS OF APPROXIMATE SOLUTIONS OF THERMAL VISCOELASTIC STRESSES
OF HYPERVIRIAL THEOREM WIS-TCI-8, SER. 3 N63-12012 06-23	A&ES-62-13 N63-11166 03-33
ELASTIC AND INELASTIC ELECTRON-ATOM COLLISIONS AND	STRESSES IN INCOMPRESSIBLE VISCOELASTIC PLASTIC THICK-WALLED CYLINDER CU-15-62-ONR-266/78/-CE N63-11873 04-33
WIS-TCI-11, SER. 3 N63-14066 09-23	GENERALIZATION OF CONSTITUTIVE EQUATIONS OF
QUANTUM VIRIAL THEOREM - EQUATION OF STATE OF FLUIDS NASA-CR-50132 N63-17212 15-23	LINEAR VISCOELASTICITY WITH LARGE DEFORMATIONS - APPLICATION TO RELAXATION CASES CU-17-62-ONR-266/78/-CE N63-11875 04-23
EQUILIBRIUM OF CURRENT CARRYING TORDIDAL PLASMA -	TENEDRAL AND AND AND SERVICE TO THE SERVICE STATE OF THE SERVICE STATE STAT
WIRIAL THEOREM HATT-191 N63-17481 16-24	HYDROGEN BONDING RELATED TO VISCOELASTICITY OF AMORPHOUS POLYMER NETWORKS — MODULUS TEMPERATURE RELATIONSHIPS OF METHACRYLATES
IRUS EFFECT OF IONIZING RADIATION ON VIRAL INFECTIONS	ONR-TR-RLT-55 N63-11962 05-07 CYLINDRICAL WAVE IN VISCOELASTIC SOLID
AND ANTIVIRUS INMUNITY AEC-TR-5579 N63-15491 12-16	CU-3-62-ONR-266/34/-CE/A N63-12161 05-23
INTRAPERITONEAL CHALLENGE OF ADULT ALBIND MICE	VISCOELASTIC PROPERTIES OF PRESWOLLEN POLYMERS IN THE TRANSITION REGION
WITH TYPE 8-1 COXSACKIE VIRUS UNDER CONDITIONS OF ACCLIMATIZATION AND NONACCLIMATIZATION AT 2-DEG C	ONR-TR-RLT-56 N63-12662 06-19
AAL-TDR-62-56 N63-19238 18-16 EFFECT OF HIBERNATION ON RETENTION OF VIRAL	DETERMINATION OF VISCOELASTIC MODEL CONSTANTS FROM DYNAMIC MECHANICAL PROPERTIES OF MATERIALS BRL-1180 N63-12679 06-33
AGENTS BY ARCTIC GROUND SQUIRRELS AAL-TDR-62-59 N63-21682 22-16	METHODS OF VISCOELASTIC AMALYSIS ARE-62-1 N63-13000 07-33
GENETIC VARIABILITY IN VIRUSES AND BACTERIOPLAGES UNDER ACTION OF RADIATION AND CHEMICAL AGENTS N63-22297 23-16	VISCOELASTICITY OF AMORPHOUS AND CRYSTALLIME POLYMERS - MODULUS-TEMPERATURE RELATIONSHIPS, CROSS-LINKING
ISCERA IMPACT DAMAGE TO INTERNAL ORGANS - AUTOMOBILE AND	ONR-TR-RLT-58 N63-13205 07-19
AIRCRAFT ACCIDENTS N63-12862 07-16	THERMAL STRESS IN VISCOELASTIC SOLIDS N63-13291 07-33
ISCOELASTIC CYLINDER HORIZONTAL SLUMP OF A VISCOELASTIC HOLLOW CYLINDER CONTAINED IN A THIN ELASTIC SHELL	VARIATIONAL PRINCIPLES IN LINEAR THEORY OF VISCOELASTICITY N63-13308 07-20
AGES-62-6 N63-11165 03-33	LUBRICANT RELAXATION EFFECTS IN DIL FILM THICKNESS
STRESSES IN INCOMPRESSIBLE VISCOELASTIC PLASTIC THICK-WALLED CYLINDER	BETWEEN INVOLUTE GEAR TEETH - SQUEEZE FILMS, VISCOELASTICITY, SURFACE DEFORMATION & ROUGHNESS

04-33 ING 18-33 18-33

AL 22-33

24-33 ULUS 24-33

F-02-23 IN 02-23

2-07 N 02-07

2-33 RMAL 3-33 C

4-33

4-23 RE 5-07 -23 IN -19 ROM -33 -33

-19 -33 -20

55

WOD-5428-41 WO3-13481 OG-11	H03-22010 23-33
INFLUENCE OF HYDROGEN BOND ON VISCOELASTIC PROPERTIES OF METHACRYLATE POLYMERS -	CONSTITUTIVE EQUATIONS OF VISCOELASTIC MATERIALS UNDER LARGE DEFORMATION AEES-63-3 N63-22013 23-33
TEMPERATURE - MODULUS STUDIES N63-15611 12-07	ANALOGIES FOR TRANSIENT TEMPERATURE DEPENDENT
DEFORMATION OF SOLID, VISCOELASTIC, CYLINDERS - PROPELLANT GRAINS OF INFINITE LENGTH AND ARBITRARY CROSS SECTION UNDER AXIAL ACCELERATION LOADS	LINEAR VISCOELASTIC MEDIA AAE-63-2 N63-23674 24-23
N63-15895 13-26 VISCOELASTICITY OF GALEX ORGANIC GLASS - SHEAR	VISCOMETER VISCOMETRIC DETERMINATION OF MOLECULAR WEIGHT OF POLYMERS
COMPLIANCE TEST RESULTS - TRANSITION TEMPERATURE ONR-TR-RLT-59 14-19	T1L/T-5363 N63-12722 06-07
CALCULATING CONSTANTS OF MAXWELL VISCOELASTIC	OSCILLATING CYLINDER VISCOMETER TO MEASURE VISCOSITY OF LIQUID POTASSIUM FROM 70 TO 1150-DEG C
BRL-MEMO-1460 N63-17651 16-20	BATT-4673-T1 N63-15253 12-18
STRUCTURAL ANALYSIS OF VISCOELASTIC SOLID PROPELLANT GRAINS AIRA PAPER-63-284 N63-17795 16-33	VISCOMETER AND VISCOMETER CALIBRATING FLUIDS FOR CAPILLARY TUBE MEASURMENTS NBS-MONOGRAPH-59 N63-20408 20-11
FREE ENERGY AND ENTROPY PRODUCTION OF LINEAR VISCOELASTIC SOLIDS	VISCOPLASTICITY MECHANICAL PROPERTIES OF VISCOPLASTIC SOLIDS
C11-87 N63-18075 16-25	SOLIDS IER SER. 175, ISSUE 1 N63-10894 02-33
STRESS-STRAIN DISTRIBUTION OF A VISCOELASTIC SOLID - TORSIONAL VIBRATION OF CIRCULAR CYLINDER WITH RIGID END MOUNTINGS	VISCOPLASTIC EQUATIONS FOR AXISYMMETRIC HYPERVELOCITY IMPACT
EH-13-14 N63-18182 16-33	APGC-TDR-62-74 N63-12005 05-33
OPTICAL BIREFRINGENCE ASSOCIATED WITH PROPAGATION OF A PLANE SHEAR WAVE IN A VISCOELASTIC MEDIUM	LONGITUDINAL IMPACT ON VISCO-PLASTIC RODS - STRAIN N63-14675 10-33
AROD-2231-8 N63-19044 18-11 VISCOELASTICITY AND IMPACT SENSITIVITY OF	PARAMETRIC STUDY OF HYPERVELOCITY PERFORATION OF THIN PLATES — VISCOPLASTIC FLOW MODEL DIT-125-3 N63-17726 16-20
BISPHENOL-A POLYCARBONATES ONR-TR-RLT-60 N63-19181 18-07	DIT-125-3 N63-17726 16-20 VISCOPLASTIC FLOW OF LONG THICK-WALLED CYLINDER
VISCOELASTIC PROPERTIES OF PLASTICIZED POLYVINYL CHLORIDE - STRESS RELAXATION CURVES, PLASTICIZER	DOMITT-1-24 N63-18202 16-33
CONCENTRATION AND POLYMER STRUCTURE ONR-TR-RLT-62 N63-19323 18-19	CF TRANSPORT PROPERTY VISCOSITY OF SUPERHEATED STEAM UP TO 275-DEG C
GREENS FUNCTION IN THE THEORY OF HOMOGENEOUS ISOTROPIC VISCOELASTIC MEDIUM N63-19670 19-25	BRN-1-P N63-10092 01-13 VISCOSITY OF GASES BY OSCILLATING DISK METHOD
MECHANICAL AND BIREFRINGENT PROPERTIES OF	BRN-2-P . N63-10093 01-23
VISCOELASTIC MATERIALS UNDER SINUSOIDAL SHEARING STRESS AROD-2231-9 N63-19764 19-11	VAPORIZATION, SURFACE TENSION, AND VISCOSITY STUDIES OF REFRACTORY METALS WADD-TR-60-463, PT. II N63-11227 03-18
MASTER CURVES AND VISCOELASTIC BEHAVIOR OF	VISCOSITY OF NITROGEN, HELIUM, NEDN, AND ARGON AT
AMORPHOUS POLYMERS IN STRESS RELAXATION ONR-TR-RLT-61 N63-19766 19-07	LOW TEMPERATURES AND HIGH PRESSURES BRN-3-P N63-11774 04-23
RESONANCE DAMPING FOR THIN, VIBRATING PLATES - CORRELATION OF DYNAMIC VISCOELASTICITY & THIN	ASYMPTOTIC SOLUTION OF MACLAURIN SPHEROID STABILITY FOR SMALL KINEMATIC VISCOSITY -
PLATE THEORIES IN MATERIALS MECHANICS ASD-TDR-63-411 N63-20305 20-33	EQUATIONS OF MOTION MRC-373 N63-14594 10-11
MECHANICAL PROPERTIES OF SOLID PROPELLANTS AND APPROXIMATE LAPLACE TRANSFORM INVERSION METHODS IN VISCOELASTIC STRESS ANALYSIS	EFFECT OF ELECTRICAL RESISTIVITY, VISCOSITY, AND THERMOCONDUCTIVITY ON HYDROMAGNETIC STABILITY MATT-143 N63-15025 11-24
P-63-13 N63-20547 20-26 STRESS ANALYSIS FOR PROBLEMS IN VISCOELASTICITY AEES-62-18 N63-21659 22-23	RHEOLOGICAL BEHAVIOR OF AEROSOL IN WATER - SEDIMENTATION & VISCOSITY STABILIZATION STUDIES NO.3-15234 11-11
GENERATION OF RESIDUAL STRESSES AND DISTRIBUTION IN THERMO-VISCOELASTIC BODIES	TURBOMACHINERY BEARING CONFIGURATIONS - TESTS FOR LONG TERM, UNATTENDED OPERATION WITH LOW VISCOSITY
N63-22042 22-33	LUBRICANTS IN SPACE ENVIRONMENT N63-15249 12-17
TEMPERATURE DISTRIBUTIONS FROM DISSIPATION CALCULATED FOR VISCOELASTIC SLAB & HOLLOW CYLINDER SUBJECTED TO CYCLIC SHEAR LOADING AEES-63-4 N63-22043 22-26	OSCILLATING CYLINDER VISCOMETER TO MEASURE VISCOSITY OF LIQUID POTASSIUM FROM 70 TO 1150-DEG C
STRESS RELAXATION DUE TO SMALL STRAINS APPLIED TO	BATT-4673-T1 N63-15253 12-18
DEFORMED VISCOELASTIC MATERIAL ACES-63-5 N63-22059 22-33	VISCOSITY OF ARGON-HELIUM MIXTURES BRN-4-P N63-16407 14-11
TRIAXIAL TENSION FAILURE OF VISCOELASTIC MATERIALS ARL-63-152 N63-22499 23-19	VISCOSITY OF CARBON DIOXIDE IN REGION OF CRITICAL POINT
VISCOELASTIC COMPRESSIBILITY IN STRESS ANALYSIS	BRN-5-P N63-16408 14-11

VISCOELASTIC COMPRESSIBILITY IN STRESS ANALYSIS

¥

ATMOSPHERIC BACKGROUND RADIATION - ULTRAVIOLET, VISIBLE AND INFRARED

HENDDYNAMICS - BLOOD VISCOSITY MEASUREME SAM-TDR-62-128 N63-165	ENT METHOD 508 14-16	STABILITY OF VISCOUS FLOW BETWEEN ROTATING CYLINDERS SEPARATED BY FINITE GAP MO-63-1	
COMPRESSIBLE FLUID VISCOSITY AND GAS FLO AND SLOTS D1-82-0168 N63-169		UPWASH IN RECTANGULAR WIND TUNNEL WITH VIS FLOW - BOUNDARY CONDITIONS	scous
AIR VISCOSITY AT LOW TEMPERATURE & PRESS		ARC-REM-3322 N63-17127	2 15-21
TRANSPORT PHENOMENA IN KINETIC THEORY OF		DIFFERENTIAL EQUATION ANALYSIS IN ASYMPTOT TREATMENT OF STABILITY OF VISCOUS FLOW BET ROTATING CYLINDERS N63-17599	TWEEN
VISCOSITY AND DENSITY OF FLUIDS AT HIGH N63-178	PRESSURE 170 16-17	VISCOUS FLOW PAST ROTATING TRANSLATING BLA ARBITRARY VELOCITY SUCTION AND SLIP	"
SHIP MODEL MAVE RESISTANCE DATA USING FR AND CONCOMITANT SURFACE MAVES GENERATED VISCOUS DRAG N63-187.	BY HULL ON	SC-4777/RR/ N63-17704 CHEMICAL NONEQUILIBRIUM EFFECTS IN VISCOUS	21/1
SQUID PROJECT - VISCOSITY OF AMMONIA-ARG		LAYERS - HYPERSONIC FLOW USCEC-76-101 N63-19160	
BRN-6-P N63-190	18-11	SOLUTION OF NONSIMILIAR, NONEQUILIBRIUM VI FLOW EQUATIONS FOR REENTRY VEHICLE WAKES	ISCOUS
RELATION OF THERMOCONDUCTIVITY, MOLECULA VISCOSITY & HEAT CAPACITY OF NONPOLAR PO GASES N63-193	LYATOMIC	FLOW EQUATIONS FOR REENTRY VEHICLE MAKES N63-23086 GROOVED PLATE VISCOUS SHEAR COMPRESSOR UNI	
TWO-DIMENSIONAL MAGNETOGASDYNAMIC FLOW W	штн	GROOVED PLATE VISCOUS SHEAR COMPRESSOR UNI POLYTROPIC FLOW CONDITIONS MTI-62TR21 N63-2375	- 10
RESISTANCE, VISCOSITY AND HEAT CONDUCTION N63-194	N 68 19-11	VISCOUS FLUID USSR ABSTRACTS ON MECHANICS - HYDRODYNAMIC	cs,
DENSITY, VAPOR PRESSURE, VISCOSITY AND F- POINT OF HYDRAZINE MONONITRATE IN HYDRAZ NASA-CR-50970 N63-210		HYDROLOGY, VISCOUS FLUID, ELASTICITY, PLAS BOUNDARY LAYER, HEAT-TRANSFER AND DIFFUSION N63-23052	STICITY,
VISCOSITY AND FLOW CHARACTERISTICS OF POI WITH DISPERSE FILLERS RSIC-51 N63-212:	28 21-19	SOLUTION OF NONSTEADY-STATE PROBLEMS IN MAGNETUHYDRODYNAMICS FOR VISCOUS INCOMPRES	
MICROSCOPIC VISCOSITY APPROACH APPLIED TO OF ATTENUATING ELASTIC WAVES IN SOLIDS	O PROBLEM	FTD-TT-63-208/16264 N63-23639 VISIBILITY	- 18
VISCOSITIES AND THERMOCONDUCTIVITIES OF	GASES AT	FREQUENCIES OF LOW CLOUD CEILINGS, BAD VIS NON-OPERATIONAL CONDITIONS AT ORLY AND LE BOURGET - RELIEVING OF THESE AIRPORTS	
HIGH TEMPERATURES SUITABLE FOR HEAT TRANS CALCULATIONS NASA-TR-R-132 N63-2280		FOG-RESISTANT MATERIALS FOR HIGH ALTITUDE	
DETERMINING VISCOUS DRAG OF SHIP MODELS I MEANS OF A WAKE SURVEY N63-2301		VISORS FOR PRESSURIZED SUIT AMRL-TDR-62-141 N63-1273	
EFFECT OF VISCOSITY IN MAGNETOHYDRODYNAM GENERATOR LOSSES - VISCOUS AND REVERSE CL LOSSES N63-234	IC URRENT	DATA ON VISIBILITY OF STARS AND ITS USEFUI IN APOLLO PROJECT E-1172 N63-1277	
LOSSES N63-2340 VISCOUS FLOW CF INVISCIO FLOW	24-24	APPROACH VISIBILITY MEASUREMENTS, INSTRUME AND APPLICATION TO AIRCRAFT INSTRUMENT LAN OPERATIONS N63-1592	NDING
VISCOUS BLUNT BODY PROBLEM - VORTICITY EC STAGNATION POINT HEAT TRANSFER		PILOT VISIBILITY - PILOT VISUAL PERCEPTION	
	76 03-11	VISIBILITY TRAINING EQUIPMENT NAVTRADEVCEN-783-1 N63-1671:	5 14-14
STABILITY OF VISCOUS FLOW BETWEEN ROTATION CYLINDERS - PRESSURE GRADIENTS N63-112		VISIBILITY OF TARGETS PRESENTED IN TARGET- BACKGROUND COMPLEXES OF NONUNIFORM LUMINOS	SITY
INVISCID AND VISCOUS HYPERSONIC NOZZLE FO		WEIGHTED AVERAGE COMPUTATIONS OF SURFACE	
AEDC-TDR-63-18 N63-1163		VISIBILITY AT GRID POINTS FOR AIRCRAFT TRA CONTROL N63-1998	
VISCOUS COMPRESSIBLE FLOW UNDER INFLUENCE RESONANT ACOUSTIC FIELD ARL-62-457 N63-123		SCORING SYSTEM FOR WEATHER FORECASTS OF CI AND VISIBILITY N63-2017	
FLOW OF LOW VISCOSITY CONDUCTING FLUID IN		VISIBILITY METER THE SPATIAL DISTRIBUTION OF THE VISIBILITY INTERFERENCES IN THE MICHELSON INTERFERENCE	
VISCOUS SHOCK LAYER FLOW OVER BLUNT BODII	ES	INTERFERENCES IN THE MICHELSON INTERFEROM FTO-TT-62-1178/162 N63-1044	
GASL-TR-337 N63-1359 VISCOUS EFFECTS ON ZERO-LIFT DRAG OF SLEE		VISIBLE RADIATION ROTATIONAL ANALYSIS OF VISIBLE BROWINE/FLI BANDS AND FORM OF O-PLUS TERMS OVI250	
EDNES AEDC-YDR-63-35 N63-136	58 08-11	DVL-250 N63-15850	
NOZZLE ORIFICE FLOW AT LOW REYNOLDS NUMBER N63-1438		MOLECULAR BAND ABSORPTION IN THE VISIBLE S OF POTASSIUM AND SODIUM VAPORS IN HIGH TEL ARC AND PLASMA SYSTEM	MPERATURE
VISCOUS COMPRESSIBLE AND INCOMPRESSIBLE	FLOW IN	ARL-63-37 N63-1746	2 15-16

VISCOUS COMPRESSIBLE AND INCOMPRESSIBLE FLOW IN SLENDER CHAMNELS N63-14385 10-11

10-11 15 15-20

N 16-11 WITH 16-11 OCK 18-11 US

24-33

E 4-24 ITY, 4-21 ET 5-16

-05 ON, -22 -

-01

-21

-15

23 H RE

LAS-TR-199-36	N63-18473	17-10	VIDEO DETECTION TECHNIQUES APPROPRIATE FOR MILLIMETER AND SUBMILLIMETER RANGE OF SPECTRUM
OPTICAL INSTRUMENT CALIBRAT	FRARED, ULTRAVIOLE		RADC-TDR-63-365 MO119 N63-22406 M 23-09
AND VISIBLE SPECTRA - DEFEN	N63-18988	1.0.19	VISUAL PERCEPTION CF COLOR PERCEPTION ANGULAR ROTION DETECTION BY HUMAN PILOTS AND
VISIBLE RADIATION FROM NYLO NITROGEN AND CARBON DIOXIDE NOLTR-63-153	MARILSON OF SPEECH	103	APPLICATION TO SPACE RENDEZVOUS CONTROL NASA-TN-D-1498
MODEL OF CLEAR STANDARD ATT ATTENUATION IN VISIBLE RESI AFCRL-63-675	OSPHERE FOR DETERMINED NO.	INING	STIMULUS AMBIGUITY EFFECT ON DISPLAY OF ATTITUDE INFORMATION 0228-421-013 N63-12300 05-15
VISION CF EYE	W (Tax E019 in 1.358 in	METER IN A	VISUAL BOUNDARY FOR HUMAN PERCEPTION OF VERTICAL RATE OF DESCENT NASA-TN-D-1591 N63-12703 06-14
GF PERCEPTION REVERSIBLE FREE RADICAL GEN GRANULES OF THE EYE BY VISI NADC-MA-6212	BLE LIGHT	ANIN 01-16	HIDAIR VISUAL COLLISION AVOIDANCE DATA APPLIED TO HIGHWAY SAFETY 18 18 18 18 18 18 18 18 18 18 18 18 18
VISUAL AND AUDITORY MONITOR AMRL-TOR-62-97	ING TESTS		VISUAL ACUITY OF PILOT AS APPLIED TO RENDEZVOUS OPERATIONS IAS PAPER-63-15 N63-12884 07-14
EFFECTS OF APPLIED OCULAR F ACCELERATION ON PHOTIC DRIV NADC-MA-6214			TRAINING MATERIAL FOR AERIAL OBSERVER INSTRUCTION IN VISUAL SKILLS HUMBRO-TR-80, SUPPL. N63-12969 07-14
MANNED SPACE FLIGHT - VISUA SPACECRAFT RENDEZVOUS		15-14	FIELD EXPERIMENTS ON VISUAL AERIAL OBSERVATION N63-13084 07-14
FACTORS AFFECTING HUMAN VIS VIBRATION			PROBLEM SOLVING - SEQUENTIAL ANALYSIS OF TARGET DETECTION - PATTERN RECOGNITION AMRL-TOR-62-148 N63-14489 10-14
EFFECT OF BANKING OF FIELD TRACKING - HUMAN PERFORMANCE		24-14	AMRL-TDR-62-148 N63-14489 10-14 SENSITIVITY OF SEMICIRCULAR CANALS DURING WEIGHTLESSNESS TESTED BY VISUAL PERCEPTION OF
ISUAL AID IDENTIFICATION OF HUMAN FAC REQUIREMENTS FOR VISUAL AT	TORS RESEARCH		TARGET ROTATION SAN-TDR-62-148 103-16126 13-16
FLIGHT SIMULATORS HSR-RR-62/10-MK-X	N63-14574	10-14	VISIBILITY OF SINGLE AND GROUPED PATCHES OF LIGHT AT NIGHT TO DARK-ADAPTED OBSERVER - VISUAL TARGET DISCRIMINATION COUNTERMEASURE APPLICATIONS
INFORMATION PRESENTATION PARTIES OF MAPS, LINEAR GRADE-TOR-63-378	NAPHS, AND TABLES N63-23579		N63-16226 13-14 PILOT VISIBILITY - PILOT VISUAL PERCEPTION TASK - VISIBILITY TRAINING EQUIPMENT
VISUAL CONTROL HUMAN ENGINEERING, AIRCRAFT DISPLAYS - FACTORS AFFECTIV TOGGLE SWITCH DENSITY NAMC-AGEL-488	COCKPIT VISUAL		NAVTRADEVCEN-783-1 VISUAL PROBLEMS OF ARMED FORCES & SPACE TRAVEL - RECONNAISSANCE, INTERPRETATION, AND BATTLEFIELD SURVEILLANCE RELATIONS TO HUMAN VISUAL PERCEPTION NAS-19241 18-14
IDENTIFICATION OF HUMAN FAI REQUIREMENTS FOR VISUAL ATT FLIGHT SIMULATORS	ACHMENTS TO DYNAMI	ıc	NIGHT VISION TESTING - VISUAL PERCEPTION No.3-19242 10-14
HSR-RR-62/10-MK-X	N63-14574	RDH-	MOTION PERCEPTION AND ORIENTATION IN GAMEFELD VISUAL FIELD M63-19243 10-14
DESIGN STUDY FOR VISUAL FLI VOL I. TECHNICAL RESULTS, I DISPLAY \$5-1211		ISTON	ELECTROPHYSIOLOGICAL CORRELATES OF PROLONGED EXPOSURE TO UNIFORM VISUAL STIMULATION - VISUAL PERCEPTION - BLANKOUT - N63-19244 18-14
VISUAL OBSERVATION VALUE OF VISUAL OBSERVATION EVOLUTION OF SUNSPOTS BY NO	NS OF FINE STRUCTURE	RE AND	APPARENT FRONTOPARALLEL PLANE, STEREOSCOPIC CORRESPONDENCE AND INDUCED CYCLOROTATION OF EYES - VISUAL PERCEPTION PROBLEM
DRAWINGS AFCRL-62-890	N63-14178	09-05	USAMRL-472 N63-19245 10-14 SENSORY AND PERCEPTUAL SENSE PROBLEMS OF MANNED
TRACK DETERMINATION OF ART FACH VISUAL OBSERVATIONS			SPACE FLIGHT - VISUAL PERCEPTION DEPRIVATION NO. 10-14
CLOUD COVER RESEARCH DATA - RADAR RECORDS, PHOTOGRAPHS U-2 AIRCRAFT AND TIROS SATI AFCRL-63-400	FROM WHOLE-SKY CA	HERAS.	VISUAL SUBSYSTEM OF MERCURY CAPSULE - VISIOM IN ORBIT - VISUAL PERCEPTION PROBLEM N63-19247 #18-14
METEOR PHOTOGRAPHY AND VIS	SHE BE HOLFSON I	1000	MANNED SPACE PLIGHT PERCEPTION PROBLEM THEORIES - VISUAL PERCEPTION PROBLEM No.3-19240 18-14
DEVELOPMENT OF PERISCOPE F	OR VISUAL OBSERVAT	ION	IMAGE QUALITY OF ARRIAL PHOTOGRAPHY - VISUAL PERCEPTION NG3-19249 18-23
ATMOSPHERIC RADIATION - ATVISUAL OBSERVATION PROBLEM	HOSPHERIC OPTICS A	15-15 HD 17-15	IMAGE ENHANCEMENT AID TO RECOMMAISSANCE OR PHOTO INTERPRETATION - VISUAL PERCEPTION NAS-19250 18-14

HIGH TEMPERATURE LIQUID METAL HEAT TRANSFER -VOID FRACTION TEST RUNS FOR BOILING SODIUM STUDIES N63-15023 11-13 VOL

VO

YO

	MILITARY SIGNIFICANCE OF TARGET IDENTIFICAT AERIAL RECONNAISSANCE - IN-FLIGHT INTERPRET BY VISUAL PERCEPTION N63-19251	ATION	WOCODER		
	PICTORIAL DISPLAY FOR AERIAL RECONNAISSANCE		CF COMPUTER SPEECH COMPRESSION SYSTEM - VOCOD	ER SPEECH	DAN
	PHOTOGRAPH INTERPRETATION BY VISUAL PERCEPT N63-19252		TRANSMISSION FOR MILITARY COMMUNICATION OF THE PROPERTY OF T	CATION N63-15657	12-08
	MILITARY INTELLIGENCE AND COMBAT SURVEILLAN VISUAL PERCEPTION N63-19253		COMPARISON OF SPEECH SIGNALS PROC AND BY DIGITAL VOICE DATA PROCESS		
	HUMAN OPERATOR PROBLEMS USING COMPLEX VISUA DISPLAYS FOR COMBAT SURVEILLANCE - VISUAL	L	AFCRL-63-118	N63-16725	14-23
	PERCEPTION N63-19254	18-01	LOG AND INVERSE-LOG FUNCTION GENE FOR USE IN DIGITAL VOCODER PITCH	CHANNEL	
	SENSOR OUTPUT DISPLAY DESIGN - MILITARY TECHNOLOGY - VISUAL PERCEPTION PROBLEMS N63-19255	18-15	AFCRL-63-186 FEASIBILITY OF MULTIPLEXING TELET		19-09 ITO
	HUMAN PSYCHOLOGICAL FACTORS IN IMAGE		NONSPEECH TIME OF VOCODED SPEECH	TRANSMISSIO	IN
	INTERPRETATION - PHOTOGRAPHIC IMAGES - VISU PERCEPTION PROBLEM N63-19256		FULL-DUPLEX DIGITAL VOCODER SYSTE SP16-A63	M - COMMUNI N63-22230	CATION 23-08
	VISUAL PROBLEMS OF BATTLEFIELD INFORMATION COLLECTION FROM LOW FLYING AERIAL SURVEILLA AIRCRAFT M63-19257		VOICE COMMUNICATION VOICE DATA PROCESSING SYSTEM - CO	10-13-807-3	LIFTER
r	VISUAL STANDARDS FOR ARMED FORCES - HUMAN V PERCEPTION AND ACUITY REQUIREMENTS	ISION -	DIGITAL VOICE COMMUNICATION AFCRL-62-911	N63-12141	05-20
	N63-19258	18-01	AUTOMATION OF SPEECH PROCESSING F		MAN AND AND AND AND AND AND AND AND AND A
	SIGNAL DETECTION BY PILOTS - LIGHT SOURCE A CITY LIGHT BACKGROUND - VISUAL PERCEPTION		THE PURPOS OF STORY DRIVEN WENT CHEEK	N63-12413	06-20
40.1	N63-20690 HUMAN PERFORMANCE DN AUDITORY AND VISUAL TA	7,304.9	VOICE AND DATA COMMUNICATION - AS	A X3.2 CODE N63-13362	08-20
	CORRELATION OF RESPONSES ANRI_TOR-63-57 N63-21284	199	VOICE COMMUNICATION SYSTEM - SPEE RECOGNITION	CH PERCEPTI	ON AND
	SENSORY ALTERNATION & HUMAN PERFORMANCE IN	VISUAL	ON HUMAN PACTORS ARSHAEDS LINES	N63-17644	
	PERCEPTION AND AUDITORY DETECTION TASKS ESD-TDR-63-605 N63-21453	22-16	PSYCHOACOUSTIC SPEECH TESTS - VOI SYSTEM EVALUATION ESD-TDR-63-403	CE COMMUNIC N63-19379	
*	VISUAL PERCEPTION OF TARGETS DURING WEIGHTL PRECEDED BY POSITIVE OR NEGATIVE ACCELERATI ELEVATOR ILLUSION	ON -	ELECTRONIC EVALUATION COMPARED TO TESTING OF VOICE COMMUNICATIONS S	ARTICULATI	ON
	SAM-TDR-62-141 N63-22076 SUAL SYSTEM	22-16	RADC-TOR-63-355 SPEECH-INTELLIGIBILITY AND TALKER	N63-21675	
••	VISUAL SIMULATION TECHNIQUES FOR ASTRONAUTI FLIGHT TRAINING - HIGH RESOLUTION TELEVISIO ELECTRONIC PLANETARIUM		TESTS OF AIR FORCE VOICE COMMUNIC ESD-TOR-63-224	ATION SYSTE	H
44	AMRL-TDR-63-54, VOL. 1 N63-19434	19-10	EFFICIENT UTILIZATION OF CHANNEL SPEECH COMMUNICATION		
	VISUAL PRESENTATION SIMULATOR FOR STUDY OF VARIOUS PHASES OF LUNAR FLIGHT N63-23214	24-32	AFCRL-63-316, PT. 2 COCKPIT VOICE RECORDERS UNDER HIG	N63-22191	
vI	SUAL TRACKING	24-32	CONDITIONS	N63-22197	23-00
+1	PRELIMINARY ORBITAL ELEMENTS OF SPUTNIK IV	CABIN -	HUMAN FACTORS ANALYSIS OF VOICE C PRACTICES IN AIR TRAFFIC CONTROL		
	RAE-TRANS-1025 N63-14336	10-08		N63-22785	23-14
	METEOR VISUAL TRACKING AND RADAR ECHOES N63-16631	14-05	VOICE DATA PROCESSING SYSTEM - CO DIGITAL VOICE COMMUNICATION	MPUTER FOR	LAURY
	EFFECT OF STATIC FRICTION AND FORCE DISPLAC GRADIENT ON VISUAL TRACKING TASK	EMENT		N63-12141	05-20
P.2	18-31050 N63-19837		SPEECH DISCRIMINATION AND ANALYSI PROCESSING	S - VOICE D	ATA
S	SUALIZATION A FLOW VISUALIZATION		THE LINE WEST AND THE TELEPHONE SECTION AND MOSTA	N63-13772	08-2
	VISUALIZATION OF COMBUSTION OF SOLID GRAIN PROPELLANT INSIDE ROCKET ENGINE N63-12486		COMPARISON OF SPEECH SIGNALS PROC AND BY DIGITAL VOICE DATA PROCESS INTELLIGIBILITY TEST	ING SYSTEM	10.15
ve		1880	AFCRL-63-118	A TREMARY OF	
	CALCIUM, IRON, AND VITAMIN B12 ABSORPTION D ENVIRONMENTAL TEMPERATURE ALTERATIONS AAL-TN-62-10 N63-22719	MMAK	VOID FRACTION HEAT ADDITION IN THE EMPIRICAL CO FRACTIONS FOR STEAM-WATER FLOW	UNDOTOFIN ADS	F V01
11	TON RUBBER	1 1 1		N63-10175	01-1
	VULCANIZATION OF FLUORINE-CONTAINING POLYME HEXAFLUOROPROPYLENE-VINYLIDENE FLUORIDE COP VITON-A RUBBER N63-13244	OLYMER,	VOID FRACTION MEASUREMENTS IN CAV TUBE WITH LIQUID METAL FLOW	N63-10643	

VLASOV EQUATION

CONSERVATION LAW FOR EXISTENCE OF UNSTABLE
ELECTROSTATIC OSCILLATIONS IN A VLASOV PLASMA

-24

ER -23 s -09

-08

-20

-20 -20

-08 ON -08

-08

-08

-08 08

14

20

23

23 10 13

15

EQUIPMENT FOR CONTINUOUS MEASUR FRACTION IN BOILING ORGANIC COO REACTOR COOLANTS	LANT - NUCLEA	OV 04-16	EPOXY POTTING FOR HIGH VOLTAGE, HIGH AND CIRCUITRY CAR OLD A AMAGE AND ASSESSMENT OF THE CONTRACT OF THE CONTR	148 - 108-17
NAA-SR-7875	RETAIL OF ME	15-13	TRANSIENT VOLTAGE AND CURRENT CALCULATION POWER SYSTEMS - PART II, AN APPROXIMATE	10 3986111
MEASUREMENTS IN AIR-WATER FLOW ANL-6738	N63-20894	21-11	SOLID ELECTROLYTE FUEL CELL DESIGN - CEL	L AREA,
NATILITY INFLUENCE OF GAMMA RADIATION AN ON PYROLYSIS OF POLYTRIFLUOROET	HYLENE	Cust	MESSAGE DESIGNATIONS THAT DESIGNATIONS AND SOME	35 09-06
VOLATILIZATION AND DECOMPOSITIO		06-07 06-07	NATURE OF LONG SPARK - POWER SUPPLY, VOL CURRENT DISTRIBUTION, FREQUENCY, AND LIG FTD-TT-61-149/162 N63-149	HTHING
EFFECTS OF GASEOUS DIFFUSION ON		149	EQUIPMENT AND METHODS OF INVESTIGATION - VOLTAGE GENERATOR AND PULSE DISCHARGES	PULSE-
OF METAL FORMING VOLATILE OXIDE	N63-13171	07-07	N63-145 LONG SPARK VOLT-SECOND CHARACTERISTICS	10 790 K. EURE
VOLATILE CORROSION-INHIBITOR TR	EATED MATERIA	LS -	ALTRON - INJOHING WOLF GATHERS TO MOST	
PACKAGING SA-TR20-2313	N63-13172	07-17	ADAPTATION OF TUNNEL DIODE STATIC INVERT	ER TO
HEAT TRANSFER IN POROUS HEDIA C		ATILE	NRL-5802 N63-161	58 13-09
LIQUID AND MASS DIFFUSION MEASU	N63-15295	12-13	PARTICLE ACCELERATORS AND HIGH-VOLTAGE	
LIFETIMES OF ICES OF COMMON VOL CARBON DIOXIDE, METHANE/ IN SOL	AR SYSTEM		VOLTAGE DIFFERENTIAL EQUATIONS OF THREE	
ONSET OF DETONATION IN HETEROGE	N63-16702	14-29	SALIENT POLE MACHINE RUNNING AT SYNCHRON SPEED - APPROXIMATE COMPUTATION FOR SHOP RAE-TRANS-1001 N63-164	
LOW VOLATILITY FUEL DROPLETS	N63-18549		BREAKDOWN VOLTAGES OF FREDN GASES AND SU	2488 AM-
URANIUM OXIDE-LANTHANUM OXIDE C RELATIONSHIPS, VOLATILITY, CRYS APPLICATIONS AS REACTOR MATERIA	TAL STRUCTURE		HEXAFLUORIDE AT LOW PRESSURE MASA-TH-D-1761 N63-16	\$ 14/15/PERSON
ANL-6711	N63-20441	20-26	POLTAGE REGULATOR DIODE TESTING SYSTEM - MEASURING VOLTAGE BREAKDOWN, ENERGY TRAIN	
INCINERATION OF HUMAN WASTE - O VOLATILIZATION PROCESS		DURING	AND TRANSFER TIME N63-20	22 19-09
AAL-TDR-62-47	N63-21398	22-16	CESIUM VAPOR THERMIONIC CONVERTERS - CUI	RENT
THRUST VECTOR CONTROL BY VOLATI INTO ROCKET NOZZLE - BLUNT BODY DRAG COEFFICIENT FROM VAPORIZED	SHOCK WAVES		DENSITY, OSCILLATIONS, DUTPUT VOLTAGE, 1 IN TRIODES N63-20	32 20-09
NASA-CR-51013	N63-23046	24-26	SPACECRAFT POWER SUPPLIES AND VOLTAGE RI NASA-CR-51005	
DICANIC THEORY POSSIBLE ELEMENTAL ABUNDANCES OF THE AND VOLCANIC ORIGIN		A SOLET Y	RESISTIVITY MEASUREMENTS AND MEASUREMENT VOLTAGE DUE TO HALL EFFECT OF SENICONDU	
LCANICS	50401144403840	et pire	DIAMONOS AFCRL-63-309 N63-21	163 22-19
CORRELATION AND CHRONOLOGY OF D VOLCANIC ROCKS	N63-19801		HYDROGEN OVERVOLTAGE & ELECTROCHEMICAL OF ZIRCONIUM & ZIRCONIUM INTERMETALLICS	
LUNAR EXPLORATION CONFERENCE - DATA INTERPRETATION, PHOTOGRAPH	IC PHOTOMETRY			217 23-11
LUNAR VOLCANICS, & MANNED EXPLO	N63-21362	22-29	VOLTAGE MEASUREMENTS IN PRESENCE OF STREETS BY ELECTRONIC CANCELLATION OF INDUCED W	
DESIGN OF A PULSED MASS RADIATO	0.45(400020) \$305(44)	Assi	AFCRL-63-216	726 08-01
SPECTROSCOPIC RADIATION SOURCE	N63-10899	02-23	VOLTAGE STABILIZER SEVEN-TRANSISTOR VOLTAGE STABILIZER WITH	CHITAGY
CESIUM COATED TUNGSTEN ELECTROD STABILITY, EVAPORATION RATES, V		00WN 02-23	POWER OF 25 MATTS MASA-TT-F-155	BEG-TREACT!
DEVELOPMENT OF A NEGATIVE SPARK	YURE .	KW1 MEY	THEOREMS FOR CHANGE OF VOLUME AND HOMEN	TS OF
TO LIGHTNING JPRS-16722	BETTINE CLOTH	TOUR	VOLUME OF ELASTIC TANKS SUBJECT TO ARBI	TRARY 01-20
STABLE, TRANSISTORIZED LOW VOLT	AGE REGULATOR	04-09	TEMPERATURE, VOLUME, PRESSURE TABLES OF THERMODYNAMIC FUNCTIONS OF MATER	THE
AGITATIONAL PHENOMENA ON POWER	SYSTEMS -	NATED IN	DESCRIPTION APPROPRIATIONAL SURFACE DESCRIPTION OF MAN	79 03-2
LIGHTNING SURGES AND OVERVOLTAG	N63-11905	04-21	SURFACE AND VOLUME PROPERTIES OF GROUND NUCLEAR MATTER ANL-6623 MGS-11	
VAN DE GRAAFF ACCELERATOR - BEA			#1-#10/050000 -2004 (23NU CATS PERSONS STANK	1201-83
AEET/NP/5			TIME ANALYSIS STUDY BY PHOTOGRAPHY OF C PROCESSES, GAS EXPLOSION, AND MAYE PROP	AGATION IN

MAGNETIC CORE VOLTAGE-TO-FREQUENCY CONVERTER
NASA-TN-D-1677 N63-13101 07-09

TIME ANALYSIS STUDY BY PHOTOGRAPHY OF COMBUSTION PROCESSES, GAS EXPLOSION, AND HAVE PROPAGATION IN VESSELS OF VARIABLE VOLUME USING HYDROGEN-GAYBEN NG3-12265 05-26

ELECTROPLETHYSMOGRAPHY INVESTIGATION OF VOLUME CHANGE OF CEREBROSPINAL FLUID, AND VELOCITY CHANGE	HELICOPTER ROTOR DISC N63-21828 22-0
OF BLOOD CIRCULATION IN BRAIN NASA-TT-F-157 N63-15510 12-16	VORTEX STABILIZED LONG ALTERNATING CURRENT ARC DISCHARGE N63-23475 24-24
SPECIFIC MEAT AT CONSTANT VOLUME OF PARA-HYDROGEN AT TEMPERATURES FROM 15 TO 90-DEG K AND PRESSURES TO 340 ATM	VORTEX STABILIZED HYDROGEN ARC N63-23476 24-24
NBS-R-270 N63-16685 14-23	VORTEX FLOW
VON ZEIPEL METHOO APPLICATION OF VON ZEIPEL AND MODIFIED HANSEN	BOUNDARY LAYER ALONG A FLAT SURFACE NORMAL TO A VORTEX FLOW NWL-1835 N6-12368 06-1
METHODS TO ARTIFICIAL SATELLITE ORBIT CALCULATIONS MASA-TM-D-2094 N63-23685 24-22	ANALYSIS OF VORTICES IN CYLINDER VORTEX CHAMBER ARAP-47 No3-12987 07-1
VORTEX	2-07:0 -00:0 1:0 AV 12:1/OAY 5:00:00:00:00:00:00:00
UNSTEADY HYPERSONIC MAKE BEHIND SPHERES BSD-TDR-62-105 N63-10068 01-02	EFFECT OF VORTEX FLOW ON AERODYNAMIC LOAD, FORCE, AND STABILITY OF SLENDER BODY AIRCRAFT NASA-TR-R-101 N69-14872 11-6
MOTION OF A PAIR OF VORTICES BEHIND A CYLINDER NML-1794 N63-10611 02-11	PERFORMANCE CAPABILITY OF SINGLE-CAVITY VORTEX
CONSTRUCTION OF ORIENTED FLOW CYLINDERS - VORTEX	GASEOUS NUCLEAR ROCKETS NASA-TN-D-1579 N63-15693 12-1
GENERATION K-1549 N63-11174 03-27	ROTATING FLOWS NORMAL TO FLAT SURFACE AND VORTEX
SWIRLING JET GENERATOR AND THE DEVELOPMENT OF INITIAL SWIRL DISTRIBUTION - VORTEX	FLOWS BY EXTENDED BOUNDARY LAYER THEORY NWL-1853 N63-16465 14-1
AFOSR-2552 N63-11429 03-11	ANALYSIS OF NAVIER-STOKES EQUATION FOR THREE- DIMENSIONAL VORTEX FLOWS WITH STRONG CIRCULATIONS
INFLUENCE OF LEADING EDGE RADIUS AND SWEEPBACK ON DEVELOPMENT OF LEADING EDGE VORTICES BY AMALYZING	DCAS-TDR-62-77 N63-16491 14-1
MING SURFACE OIL FLOW PATTERNS CP-583 N63-11925 04-03	BOUNDARY LAYER PRODUCED BY VORTEX FLOW OVER A DIS WITH AN AXIAL HAGNETIC FIELD ATN-63/9227/-1 N63-17681 16-2
PROPELLER BLADE VORTEX N63-12348 05-11	NUCLEAR PROPULSION RED - FLOW VISUALIZATION, VORTEX FLOW, AND GASEOUS FISSION REACTOR
VORTEX-MAGNETOHYDRODYNAMIC GENERATORS A-10 N63-12964 07-24	TDR-930/2210-14/TR-1 N63-18718 17-2
AMALYSIS OF VORTICES IN CYLINDER WORTEX CHAMBER ARAP-47 N63-12987 07-11	AFRODYNAMIC DATA CONCERNING VORTEX FLOW AND GAS VELOCITY IN SMALL DIRECT CURRENT ARC HEATER OPERATED WITH ARGON
FLOW FIELD AND BURSTING PHENDMENON OF SWEPTBACK	AEDC-TDR-63-124 N63-19104 18-2
WING LEADING EDGE VORTICES ARC REM-3282 N63-13351 08-11	HYDRODYNAMIC THEORY OF HIGH POWER MICROWAVE TUBE COOLING BY VORTEX FLOW
PROPELLER DESIGN METHODS BASED ON VORTEX THEORY -	RADC-TOR-63-214 N63-19533 19-1
OPEN WATER AND CAVITATION TUNNEL TESTS N63-13371 08-11	HIGH POWER MICROWAVE TUBE COOLING BY VORTEX FLOW PRESSURE DROP, BURNOUT, AND WALL TEMPERATURE MEASUREMENTS
AERODYNAMICS OF LOADED HELICOPTER ROTOR FROM THREE-DIMENSIONAL VORTEX SYSTEM	RADC-TDR-63-242 N63-19534 19-1
RAE-TRANS-1013 N63-13724 08-03	COMPRESSIBLE AND INCOMPRESSIBLE FLOW IN VORTEX MAGNETOHYDRODYNAMIC POWER GENERATOR
VORTEX MAGNETOHYDRODYNAMIC GENERATOR - ELECTRIC POWER FROM SEEDED COMBUSTION GAS MIXTURE	NASA-CR-55125 N63-21727 22-0
ASD-TDR-62-459 N63-14775 11-24	FLOW SEPARATION, VORTEX FLOW, SHOCK WAVES AND BOUNDARY LAYERS
AIRCRAFT VORTEX WAKES IN RELATION TO TERMINAL OPERATIONS AND TRAFFIC CONTROL	AFOSR-4854 N63-21801 22-1
NASA-TN-0-1777 N63-15056 11-22	EFFECT OF FREE STREAM TURBULENCE & VORTICITY ON RADIATIVE SOUND FIELD OF A FREE JET - POWER
EXPERIMENTS ON GENERATION OF SECONDARY MOTION IN VORTEX CORE REGION WHICH EXHIBIT PERIPHERAL VORTICITY	SPECTRA AND SOUND PRODUCTION PROCESS NASA-CR-51985 N63-23009 24-1
BN-313 11-11	VORTICITY EFFECT ON HEAT TRANSFER TO CONICAL PORTION OF BLUNT BODY
VELOCITY AND PRESSURE DISTRIBUTION FOR UNSTEADY MOTION IN THREE-DIMENSIONAL VORTICES - NAVIER-	PIBAL-797 N63-23510 24-1
STOKES EQUATION ARAP-50 N63-15900 13-11	VORTEX TUBE VORTEX TUBE FOR COOLING WEARERS OF INDUSTRIAL
QUALITATIVE EVALUATION OF EFFECT OF HELICOPTER	PROTECTIVE CLOTHING DP-861 N63-23117 24-1
ROTOR-BLADE TIP VORTEX ON BLADE AIRLOADS NASA-TN-0-1637 N63-16160 13-03	VORTICITY EQUATION
VORTEX SHEET STABILITY IN PERTURBATION OF THREE-	VISCOUS BLUNT BODY PROBLEM - VORTICITY EQUATIONS STAGNATION POINT HEAT TRANSFER
DIMENSIONAL COMPRESSIBLE FLUID FLOW NASA-CR-50332 N63-17201 15-20	N63-11076 03-1
MAGNETOHYDRODYNAMIC VORTICES	VOSTOK SPACECRAFT VOSTOK SERIES OF SPACEFLIGHTS - CUMULATIVE DATA
CM-1037 N63-19082 18-24	N63-20740 Z1-1

STRUCTURE OF FREE AND CONFINED TURBULENT VORTICES
N63-19210 18-11
WAKE VORTEX EFFECT ON AERODYNAMIC LOADS OVER

PRELAUNCH TESTING OF VOSTOK SPACECRAFT FTD-TT-62-1478/1626364 N63-23729 24-30 22-04

24-24

24-24

A 06-11

ER 07-11 RCE, 11-02 X 12-11 TEX

DISK

7-27

8-24 BE 9-13 OW -

2-06

2-11 N 4-11

-13

-16 15 -

-32

-30

WOSTOK I SPACECRAFT BIOMEDICAL CONTROL IN SPACE FLIG AID-62-201	HT - VOSTOK I & II N63-11835 04-16
SOVIET MANNED SPACE FLIGHT - RES PHYSIOLOGICAL MONITORING OF COSM & VOSTOK 2 - LIFE SUPPORT SYSTEM FTD-TT-62-1619/182	ONAUTS IN VOSTOK 1
VOSTOK I MANNED SPACE FLIGHT	N63-18451 17-32
	1-000-00F47 (POLO)
VOSTOK I MANNED SPACE FLIGHT - C PERFORMANCE	05M0NAUT N63-18454 17-14
VOSTOK 11 SPACECRAFT BIOMEDICAL CONTROL IN SPACE FLIG A10-62-201	HT - VOSTOK 1 & 11 N63-11835 04-16
SOVIET MANNED SPACE FLIGHT - RES PHYSIOLOGICAL MONITORING OF COSM	ONAUTS IN VOSTOK 1
& VOSTOK 2 - LIFE SUPPORT SYSTEM FTO-TT-62-1619/162	N63-15658 12-16
EFFECT OF SPACE FLIGHT FACTORS O	F SATELLITE VOSTOK
II ON HAPLOID AND DIPLOID YEAST	N63-21510 22-16
AND THE PROPERTY OF THE PARTY O	NO3-21310 EE 10
VOSTOK III SPACECRAFT SOVIET ROLE IN SPACE EXPLORATION AND IV - SPACE FOOD	
JPRS-16718	N63-10992 02-01
SOVIET TANDEM SPACEFLIGHT - VOST	OK-III AND IV
SPACECRAFTS STL-TRANS-70	N63-18841 18-32
LIFE SUPPORT SYSTEMS IN MANNED S MEDICAL AND BIOLOGICAL ASPECTS O	PACE FLIGHT -
VOSTOK-4 SPACECRAFT AID-62-191	N63-23523 24-32
FOUR-DAY SPACE FLIGHT OF VOSTOK	III N63-23675 24-30
VOSTOK IV SPACECRAFT SOVIET ROLE IN SPACE EXPLORATION AND IV — SPACE FOOD	
JPRS-16718	N63-10992 02-01
SOVIET TANDEM SPACEFLIGHT - VOST SPACECRAFTS STL-TRANS-70	OK-III AND IV N63-18841 18-32
LIFE SUPPORT SYSTEMS IN MANNED S MEDICAL AND BIOLOGICAL ASPECTS O	PACE FLIGHT -
VOSTOK-4 SPACECRAFT AID-62-191	N63-23523 24-32
VOSTOK V SPACECRAFT	
SPACE FLIGHT OF VOSTOK V AND VOS IONIZING RADIATION ENVIRONMENT	
JPRS-21138	N63-21931 22-32
SPACE FLIGHT - BRIEF LOG OF FLIG OF VOSTOK V AND VOSTOK VI	HT BY COSMONAUTS N63-21932 22-32
PRESS CONFERENCE ON SPACE FLIGHT VOSTOK VI COSMONAUTS	BY VOSTOK V AND N63-21933 22-32
VOSTOK VI SPACECRAFT SPACE FLIGHT OF VOSTOK V AND VOS IONIZING RADIATION ENVIRONMENT JPRS-21138	TOK VI AND N63-21931 22-32
TABLE RESIDENCE IN ANALY SERVICE	A STATE OF THE PARTY OF
SPACE FLIGHT - BRIEF LOG OF FLIG OF VOSTOK V AND VOSTOK VI	HT BY COSMONAUTS N63-21932 22-32
PRESS CONFERENCE ON SPACE FLIGHT VOSTOR VI COSMONAUTS	8Y VOSTOK V AND N63-21933 22-32
VOYAGER PROJECT SPACE PROGRAMS SUMMARY NO. 37-18 DEC 1962 - SPACE EXPLORATION PRO SCIENCES	
JPL-SPS-37-18, VOL. VI	N63-12341 05-29
SPACE PROGRAMS SUMMARY NO. 37-15 TO JAN 1963 - SPACE EXPLORATION SCIENCES - DSIF, RANGER, MARINER	PROGRAMS & SPACE & VOYAGER PROJECT

JPL-SPS-37-19. VOL. VI	N63-14902 11-29
L AIRCRAFT COMPARISON OF VERTICAL TAKEOF	F AIRCRAFT WITH THE
CONVENTIONAL TYPE MGL PAPER-27	N63-10025 01-04
STUDIES OF SECONDARY POWER GE LIFT JETSTREAMS	STATE OF SAME AND A
WGL PAPER-28	N63-10026 01-11
JET DEFLECTION FOR THE PURPOS CONTROL IN V/STOL AIRCRAFT WGL PAPER-29	AND ADDRESS OF THE PARTY OF THE
AUTOMATIC STABILIZATION AND S	
AIRCRAFT WGL PAPER-31	
AERODYNAMIC CHARACTERISTICS O	
NASA-TN-D-1491	N63-10200 01-04
PROPELLER SLIPSTREAM EFFECTS WING PRESSURE DISTRIBUTION OF SIX-PROPELLER VTOL MODEL AT S NASA-TN-D-1509	AS DETERMINED FROM A LARGE-SCALE TATIC THRUST M63-10533 01-04
AERODYNAMIC CHARACTERISTICS O	F FOUR DUCT TANDEN .
VTOL AIRCRAFT CONFIGURATIONS MASA-TM-0-1481	N63-11846 04-02
WIND TUNNEL INVESTIGATION OF TAKEOFF AND LANDING AIRCRAFT	WINGLESS VERTICAL
NASA-TN-D-1335	N63-12489 06-02
FLIGHT EVALUATION OF LUNAR LA USING JET VTOL TEST VEHICLE NASA-TN-D-1649	NOING TRAJECTORIES N63-12593 06-29
WIND-TUNNEL TESTS OF TWO VYOL	
COMPILATION OF PAPERS PRESENT ON TESTING, DESIGN. PERFORMAN OF VTOL AND V/STOL AIRCRAFT	TED AT MASA CONFERENCE
AERODYNAMIC CHARACTERISTICS O VIOL AIRCRAFT - HOVERING, PRO	
WIND TUNNEL STUDIES OF YTOL A EFFICIENCY & FLIGHT PERFORMAN PROPELLERS, DUCTED FANS, AND	ROTORS
WIND TUNNEL TEST OF FAM-IN-FU AIRCRAFT	USELAGE MODEL OF VTOL N63-14688 10-04
EFFECT OF JET AND FREE STREAM FUSELAGE OF JET AND DUCTED-FA TRANSITION	A AIR FLOW ON WING OR AN VYOL AIRCRAFT IN N63-14689 10-03
DISCUSSION OF GROUND INTERFER AIRCRAFT. EFFECTS OF JET EXH	RENCE EFFECT ON YTOL NUST AND SLIP STREAM N63-14690 10-04
METHODS OF IMPROVING HELICOPT FOIL CHARACTERISTICS, ROTARY	
RESEARCH ON VIOL AIRCRAFT STA PERFORMANCE DURING HOVERING, LANDING	ABILITY AND CONTROL LOW SPEED, AND N63-14693 10-04
EFFECT OF GROUND PROXIMITY, A PITCHING MOMENTS, AND POWER S AIRCRAFT	WING-STALL PHENOMENA, REQUIREMENTS ON VTOL N63-14694 10-04
DEFLECTED-JET VTOL AIRCRAFT (
ATTITUDE CONTROL REQUIREMENTS	TED SIMULATOR
CONTROL PROBLEMS IN VIOL AIRC	N63-14699 10-04
PILOTED SIMULATOR USE	N63-14700 10-04

VTO

GROUND EROSION DUE TO VTOL DOWNWASH N63-14703 10-04 STRUCTURAL DYNAMICS OF ROTOR AIRCRAFT - STABILITY, RESONANCE AMPLIFICATIONS OF ROTOR-BLADE STRESS AND MEASUREMENT OF ROTOR HUB FORCES AND MOMENTS N63-14705 STRUCTURAL LOAD SURVEYS ON TILT-WING VTOL AIRCRAFT AIRFRAME VIBRATORY LOADS OF VZ-II YTOL AND WING LOADS OF RESEARCH MODEL IN WIND TUNNEL TESTS ROTOR-BLADE VIBRATORY LOADS - AERODYNAMIC LOADING THROUGH ALL FLIGHT PHASES N63-14707 10-3: VARIABLE AMPLITUDE LOADING, FATIGUE LOADING, FATIGUE CRACK PROPAGATION AND STRUCTURAL FATIGUE LIFE N63-147 PARTS N63-14708 10-33 STABILITY AND CONTROL OF SUPERSONIC VIOL AIRPLANE MODEL HAVING BROAD FUSELAGE AND SMALL DELTA WING NASA-TH-X-441 N63-16140 13-04 DYNAMIC BEHAVIOR OF VTOL & STOL POWER TRANSMISSION SHAFTS OPERATING AT HYPERCRITICAL SPEEDS - SHAFT DESIGN - STRUCTURAL DYNAMICS N63-16610 14-34 VERTICAL TAKEOFF AND LANDING PLANFORM - JET THRUST AND GROUND EFFECT - SHORT SC.1 AIRCRAFT ARC-REM-3313 N63-17120 15-04 EFFECT OF VERTICAL TAIL MODIFICATIONS ON STATIC STABILITY OF VTOL SUPERSONIC AIRCRAFT AIR MASS FLOW REQUIREMENTS FOR VERTICAL TAKEOFF OF HELICOPTER AND VTOL TRANSPORT DESIGN - MANNED 15-04 SIMULATION OF HUMAN CONTROL OF VTOL AIRCRAFT USING DIGITAL COMPUTERS N63-18068 16-09 OPERATING PROBLEMS AND AERODYNAMIC CHARACTERISTICS OF TILT DUCT, FIXED WING, VERTICAL TAKEOFF AND LANDING AIRCRAFT NASA-TN-D-1802 17-04 N63-18658 FLOW CHARACTERISTICS OF JET IMPINGEMENT FROM VTOL AIRCRAFT CAL-68-1657-5-1 N63-18745 17-11 DYNAMIC LOADS AND DESIGN OF HELICOPTERS, VERTICAL TAKEOFF AND LANDING AIRCRAFT AND V/STOL AIRCRAFT 20-04 N63-20351 V/TOL AIRCRAFT FLIGHT TEST WITH UNSHROUDED PROPELLERS - STATIC & DYNAMIC STABILITY DURING HOVERING & FLYING NASA-TN-D-1965 N63-20607 20-04 JET VIOL AND STOL TACTICAL AIRCRAFT 22-04 HIGH-SPEED SHAFTING FOR POWER TRANSMISSION IN STOL AND VIOL AIRCRAFT N63-21840 22-04

WITH UNIVERSAL JOINTS

N63-21841

22-04

AUTOMATIC STABILITY AND CONTROL SYSTEMS FOR
TILTING DUCTED PROPELLER VTOL TRANSPORTS
R-1624-5

N63-22245

23-03

WIND TUNNEL TEST OF AERODYNAMICALLY CONTROLLED
TILTING-WING VERTICAL TAKEOFF AND LANDING AIRCRAFT
DTMB-AERO-1057

N63-22769

23-03

DYNAMIC TORSIONAL PROBLEMS IN VIOL DRIVE TRAINS

PRELIMINARY ANALYSIS OF HOVERING AND CRUISING
PERFORMANCE FOR TRIDENT WTOL AIRCRAFT CONCEPT
DTMB-AERO-1058 A63-23135 24-04

VULCANIZATE

VULCANIZATION OF FLUORINE-CONTAINING POLYMERS
HEXAFLUOROPROPYLENE-VINYLIDENE FLUORIDE COPOLYMER,

VITON-A RUBBER

N63-13244 07-07

SYNTHESIS OF ADDITIVES TO IMPROVE HEAT STABILITY
OF ELASTOMERIC VULCANIZATES - SILICONE, DIENE, AND
FLUOROCARBON ELASTOMERS N63-16194 13-07

PMYSICAL PROPERTIES OF VULCANATES BASED ON NITRILE-BUTADIENE RUBBER AND STYRENE RUBBER BLENDS RIA-TR-63-1574 N63-19844 19-19

AGING OF ELASTOMERIC VULCANIZATES
RIA-63-2392 N63-22823 23-19

POLYETHER URETHANE VULCANIZATES & ENVIRONMENTAL TESTING UNDER CONDITIONS OF HIGH HUMIDITY RIA-63-2808 R63-23002 24-17

VZ-8PA AIRCRAFT
SPRAY GENERATION TEST OF ARMY VZ-8PA SEAGEEP
AIRCRAFT
N63-22640 23-04

VZ-11 AIRCRAFT SA XV-5A AIRCRAFT

> LIFT FAN FLIGHT RESEARCH AIRCRAFT PROGRAM -PROPULSION AND VZ-II AIRCRAFT
> N63-12031

N63-12031 05-04

NA3-10727

02-24

STRUCTURAL LOAD SURVEYS ON TILT-WING VTOL AIRCRAFT AIRFRAME VIBRATORY LOADS OF VZ-II VTOL AND WING LOADS OF RESEARCH MODEL IN WIND TUNNEL TESTS N63-14706 10-33

PERFORMANCE OF U.S. ARMY VZ-II RESEARCH AIRCRAFT -VTOL AIRCRAFT R-219 N63-21553 22-04

W

WAKE SA HYPERSONIC WAKE CF CAVITATION

ELECTROMAGNETIC INTERACTION WITH THE WAKE OF REENTRY BODIES, PREDICTION MODEL

FORCE MEASUREMENTS ON A DATA CAPSULE IN THE WAKE AND FLOW FIELD OF A CARRIER VEHICLE AT MACH 8 AEDC-TDR-62-220 N63-11425 03-0

DOWNRANGE ANTIMISSILE MEASUREMENT PROGRAM /DAMP/ EFFECTS OF PLASMA AND WAKE ON RADAR ELECTRO-

DAMP-TM-62-13 N63-11564 04-08

STABILITY OF AXISYMMETRICAL WAKES OF BINARY MIXTURE OF COMPRESSIBLE FLUIDS R62SD79 N63-11795 04-11

MICROWAVE SCATTERING FROM WAKES OF HYPERVELOCITY PROJECTILES - ANALYTICAL METHODS N63-12107 05-24

HUB-TIP RADIUS RATIO TRANSONIC TURBINE FOR SECONDARY FLOW - STATOR CONFIGURATIONS DESIGNED TO ELIMINATE BLADE WAKES AND SECONDARY-FLOW EFFECTS NACA-RM-F57608 06-02

MEASURING BOUNDARY LAYERS AND WAKES IN SUPERSONIC N63-12797 06-11

AXIAL VARIATION OF ELECTRON DENSITY IN LAMINAR MAKE OF A TEST SPHERE N63-13019 07-11

CYLINDER AND SPHERE WAKES AT SUPERSONIC SPEED
JPL-TR-32-363 N63-13061 07-11

PRACTICABILITY OF REDUCING AIRCRAFT APPROACH AND LANDING SPEEDS USING JET FLAPS - THRUST CONTROL. FLOW VISUALIZATION, AND WAKE PRESSURES. SUDAER-138 No.3-13269 07-0

FLOW FIELD OF BLUMTED 9-DEGREE CONE - DOWNSTREAM AND SHOCK LAYER INVISCID FLOW AND FAR WAKE LAMINAR FLOW OF TRAILBLAZER II REENTRY BODY GASL-TR-256 II N63-13453 08-02

LAMINAR WAKE PROPERTIES INCLUDING CHEMICAL-DIFFUSIVE COUPLING TY AND 3-07

ENDS 9-19

3-19

4-17

3-04

5-04

RAFT 0-33

FT -

2-04

2-24 E

-02

1 -

-08

-11 γ

-24

T0 S -02

10

-11

-11

-03

H

-02

D

L

GASL-TR-282	111111111111111111111111111111111111111	PSSWALVE	EFFECT OF NONRIGID WAKE ON HE BLADE AIRLOADS IN TRANSITION	FLIGHT XIM TAR YEARYS
SUPERSONIC FLOW FIELD OF AN AER VELOCITY, PRESSURE, WAKE AND RI EFFECTS ON ELECTRON DENSITY - (GASL-TR-292	ATE CHEMISTRY	BURAIN	AIRCRAFT WAKES FOR DISPERSAL MR163-FR-71, PT. B	OF SPRAYS IN TRUZZARY
ELECTRICAL TRANSMISSION AND RAI OF HYPERSONIC PURE AIR WAKES AS CHEMICAL NONEQUILIBRIUM			FLUID PROPERTIES AND ELECTRON EQUILIBRIUM FAR WAKE 86150105	N63-22071 23-11
R62SD989	N63-13465		DETERMINING VISCOUS DRAG OF S MEANS OF A WAKE SURVEY	BETT FALLER BETTER BY ACTIVITIES
RATE CHEMISTRY EFFECTS ON HYPER AXISYMMETRIC WAKES GASL-TR-180	N63-13476	08-07	VELOCITY AND PRESSURE DISTRIB OF REVOLUTION AT TRANSONIC AN	UTION IN WAKE OF BODY
IMPROVED HYPERSONIC LAMINAR WAN INCLUDING RATE CHEMISTRY - COMP	PUTER PROGRAMS	STEEDING AT	THUNDERSTORM WAKE OF MAY 4, 1	N63-23321 24-02
GASL-TR-249 STAGNATION AND WAKE FLOWS, NORM	4123314	N 78 30	WAKE DEPRESSION NSSP-18	
SOUNDARY LAYER THEORY NWL-1840		09-11	MAKE GENERATOR SOUNDING ROCKET PAYLOAD FOR M	AKE GENERATOR TEST -
EFFECT OF BODY GEOMETRY ON TURE WAKE OF REENTRY 8SD-TDR-62-354			ASSEMBLY, SAFETY, HOLD, & LAU TOM-W-11,774, REV. 1	N63-15424 12-04
AIRCRAFT VORTEX WAKES IN RELATI OPERATIONS AND TRAFFIC CONTROL NASA-TN-D-1777		AL 11-22	WALL SA MOZZLE WALL INSULATION RESEARCH - HYSTERE OF POLYCRYSTALLINE GARNETS -	SIS LOOP, SWITCHING
THERMAL AND CHEMICAL EFFECTS IN	20 40 15 22 2111	12-11	DYNAMICS OF DIFFUSION-DAMPED	N63-11290 03-25 FERROMAGNETIC DOMAIN
LAMINAR AND TURBULENT WAKE CALC		NOL	WALL TEMPERATURE MEASUREMENTS	AND 为在大型品牌的第三位的文件的
GASL-TH-76-A			THERMOMETRY ONERA-TR-108	N63-11294 03-15
WAKE ANALYSIS BEHIND OSCILLATION USING OSEEN LINEARIZATION - DONNEASUREMENT PROGRAM	NRANGE ANTIH		HEAT TRANSFER IN LAMINAR FLOW	
	N63-15757	12-30	NASA-TH-D-1527	N63-12478 06-11
RADIAL ELECTRON DISTRIBUTION IN HYPERVELOCITY PROJECTILES 88E63-001	N63-16313	13-24	INCREASE IN TRANSITION TIME E EXISTENCE OF DISTURBANCE ON S	XPLAINED BY HOCK TUBE WALLS N63-12749 06-11
ACOUSTIC STUDY OF GASEOUS MICRO BOUNDARY LAYER AND PROPELLER WA		14-11	TEST TIME IN LOW PRESSURE SHO LAYER AND WALL EFFECTS TDR-169/3238-12/TN-5	PERSONAL DESCRIPTION OF THE PROPERTY OF THE PERSONAL PROPERTY OF THE PE
HEAT TRANSFER & DRAG ON FLAT PL SECOND FLAT PLATE			FLUID AMPLIFIER - WALL EFFECT ELEMENTS	N63-13361 08-11
THEORY CALCULATION FOR GROWTH O TURBULENT WAKE BEHIND BLUNT AND RM-3270-PR	OF HYPERSONIC	IES	VELOCITY PROFILES IN KARMAN-F INTEGRAL METHOD WITH SLIP BOU WALL EFFECTS	OHLHAUSEN MOMENTUM INDARY CONDITION -
QUASI-ONE-DIMENSIONAL MODEL FOR REACTING TURBULENT WAKES OF HYP 850-TDR-63-153	CHEMICALLY PERSONIC OBJEC	CTS	SC-4752/RR/ FLUID AMPLIFICATION - JET ATT FUNCTION OF ADJACENT WALL OF	ACHHENT DISTANCE AS A
PRESSURE DISTRIBUTION MEASUREME ON WING PROFILE WITH LEADING EC PROFILE WITH LEADING EGGE SLOT	ENTS AND WAKE	SURVEY ND WING	TR-1087 SPIN WAVES AND NUCLEAR MAGNET EMMANCEMENT IN NICKEL FLUORIC	N63-13624 OB-11 TC RESONANCE DE DOMAIN WALLS
SLENDER BODY NEAR WAKE-DENSITY		AT MANA	EFFECT OF CHANGE IN AXIAL VEL	
MACH 13 AND 18 APPROXIMATE NUMERICAL SCHEME FO	OR THEORY OF	CAVITY	FLOW THROUGH CASCADE OF AEROF AND SOLID WALL WIND TUNNELS ARC-CP-619	11 N63-16166 13-03
FLOWS PAST SUBMERGED BODIES OF HYDROFOIL WAKE	N63-20312	20-11	SHOCK TUBE TEST TIME LIMITATI	
S-58 HELICOPTER WAKE STUDIES BY OF COLORED SMOKE TRAILS	N63-20774	21-04	TDR-169/3230-12/TR-3 VISCOPLASTIC FLOW OF LONG THI	CK-WALLED CYLINDER
RAREFIED GAS DYNAMICS - MAKE OF SPHEROID IN MAGNET-FREE RAREFIE			TURBULENT SPOTS AND WALL ROUG	H63-10202 16-33
NONEQUILIBRIUM TURBULENT WAKE OF APPROXIMATE INTEGRAL SOLUTION OF SPECIES AND THERMAL PROPERTY	IS FOR DISTRIC	BUTION	APPROXIMATE CALCULATIONS OF	N63-18382 17-11 HALL PRESSURE PROFILE
BSD-TDR-63-138 MAKE VORTEX EFFECT ON AERODYNAM HELICOPTER ROTOR DISC	N63-21700 HIC LOADS OVER N63-21828	22-11 R 22-04	OF CHAPMAN-JOUQUET DETOMATION HIGH EXPLOSIVE ADJACENT TO RI LAMS-2002	H63-10029 10-23

WAKE VORTEX EFFECT ON AERODYNAMIC LOADS OVER HELICOPTER ROTOR DISC N63-21828 22-04

EL

III III RI

TI VI GI BI N. EI B. L. C.

MSR EUA EPA PO ACA HSA FT CE

BOLTZMANN EQUATIONS APPLIED TO SEPARATION OF BINARY GAS MIXTURE AT POROUS WALL	WARNING SYSTEM SA BALLISTIC MISSILE EARLY WARNING SYSTEM /BMEWS/
K-1580 N63-20705 21-11	AIRCRAFT INSTRUMENT FOR WARNING PILOT OF COLLISION WITH OMNIDIRECTIONAL RADIO RANGING
PRESSURE FLUCTUATIONS AT RIGID WALL UNDER	N63-15530 12-15
TURBULENT BOUNDARY LAYER AT SUPERSONIC & SUBSONIC SPEEDS COA-N-140 N63-22361 23-11	PYROTECHNIC OUTDOOR WARNING SYSTEM - DESIGN PHASE USING PROPELLANT ACTUATED DEVICES
WALL CORRECTIONS FOR WINGS OSCILLATING IN	N63-16785 14-10
RECTANGULAR WIND TUNNELS UNDER SYMMETRICAL OR ANTISYMMETRICAL LOADING	PILOT WARNING INDICATOR SYSTEM - TEST AND EVALUATION OF AIRBORNE ELECTRONIC EQUIPMENT BY
ARC-REM-3312 N63-23250 24-03	GROUND AND IN-FLIGHT MEASUREMENTS NOTS-TP-3102 N63-21027 21-15
INCREASED HEAT TRANSFER BETWEEN DUCT WALL AND COMPRESSIBLE FLUID UNDER PRESSURE OSCILLATION N63-23366 24-13	WASTE SA HUMAN WASTE SA RADIOACTIVE WASTE
WALL TEMPERATURE EFFECT OF PRESSURE LEVEL ON AFTERBURNER WALL	WASTE TREATMENT PROTOZOA - MORPHOLOGY AND TAXONOMY OF FLAGELLATA N63-11933 04-16
TEMPERATURE NACA-RM-E58001 N63-12515 06-27	WASTE DISPOSAL
COOLING CORRELATION FOR AFTERBURNER WITH ANNULAR COOLING PASSAGE - COMBUSTION CHAMBER WALL	MICROBIOLOGICAL WASTE TREATMENT IN CLOSED ECOLOGICAL SYSTEM AMRL-TOR-62-126 04-16 N63-11924 04-16
TEMPERATURES NACA-RM-E52C13 N63-14759 11-27	WASTE TREATMENT PROTOZOA - MORPHOLOGY AND TAXONONY
TEMPERATURE DISTRIBUTION ANOMALY IN SURFACE LAYERS	OF FLAGELLATA N63-11933 04-16
OF HEATED OR COOLED WALL - JACQ EFFECT AND INFLUENCE ON HEAT-TRANSFER COEFFICIENT EUR-237.F N63-15649 12-13	MICROBIOLOGICAL WASTE DISPOSAL TECHNIQUES FOR SPACE FLIGHT APPLICATION - BIOCIDE TREATMENT, DEHYDRATION, CHEMICAL & MICROBIOLOGICAL OXIDATION
HIGH POWER MICROWAVE TUBE COOLING BY VORTEX FLOW -	AMRL-TDR-62-142 N63-14177 09-16
PRESSURE DROP, BURNOUT, AND WALL TEMPERATURE MEASUREMENTS	WASTE DISPOSAL SYSTEM FOR 3-MAN AEROSPACE MISSION AMRL-TDR-63-4 12-16
RADC-TDR-63-242 N63-19534 19-13	BIOCHEMICAL FUEL CELL - AN ANSWER TO WASTE
MEAT TRANSFER WITH LAMINAR FLOW IN CONCENTRIC ANNULI WITH CONSTANT AND VARIABLE WALL TEMPERATURE AND MEAT FLUX	MANAGEMENT IN CLOSED ECOLOGICAL SYSTEMS - ELECTRIC ENERGY SOURCE N63-15799 13-16
NASA-TN-D-1972 N63-20324 20-13	POTABLE WATER RECOVERY FROM AQUEOUS WASTES DEVELOPED IN FALLOUT SHELTER N63-17607 16-16
NUMERICAL SOLUTIONS OF LAMINAR BOUNDARY LAYER EQUATIONS WITH VARIABLE FLUID PROPERTIES - MASS TRANSFER, MALL TEMPERATURE, PRANDTL NUMBER RM-3792-PR N63-20769 21-11	AIR FORCE ARCTIC WASTE DISPOSAL SYSTEM AAL-TDR-62-46 N63-21395 22-16
RM-3792-PR N63-20769 21-11 IALLBOARD ACOUSTIC RADIATION EFFICIENCY OF GYPSUM	RADIOACTIVE WASTE DISPOSAL, RADIATION ECOLOGY, DOSIMETRY, AND HEALTH PHYSICS TECHNOLOGY ORNL-3492 N63-22226 23-16
CONSTRUCTION BOARDS AND CONCRETE PANELS N63-14048 09-23	WATER
VALLOPS ISLAND TEMPERATURE AND WIND MEASUREMENTS ABOVE 50-KM OVER	SA HEAVY WATER CRITICAL HEAT FLUX AND FLOW PATTERN OF HIGH PRESSURE BOILING WATER IN FORCED CONVECTION
WALLOPS ISLAND, VIRGINIA NASA-TN-D-1694 N63-13720 08-12	GEAP-3766 N63-10158 01-23
MASS SPECTROMETRY OF THE LOWER IONOSPHERE ABOVE WALLOPS ISLAND - DIFFUSIVITY OF ARGON & NITROGEN	A HYDROGEN DIFFUSION CATHODE FOR USE IN A WATER ELECTROLYSIS CELL AMRL-TDR-62-94 N63-10283 01-16
MASA-TN-0-1851 N63-19605 19-12	AMRL-TDR-62-94 N63-10283 01-16 HEAT TRANSFER & WATER REMOVAL IN CYLINDER DRYING -
ARHEAD CF MISSILE	FELTED CYLINDERS N63-10458 01-13
CF WEAPON EDATHERS RETTYPHAN BALLING WAS PROVED AFTER	CAVITATION SCALE AND THERMODYNAMIC EFFECTS IN STATIONARY AND ROTATING COMPONENTS WITH WATER AND
SOUTHERN CIRCUMPOLAR VORTEX AND SPRING WARMING	MERCURY N63-10530 01-11
OF POLAR STRATOSPHERE - ATMOSPHERIC ENERGETICS N63-14917 11-21	ANALYSIS OF IONIZED GASES - MASS SPECTROMETRY GA-3358 N63-10676 02-23
KINETIC EMERGY BUDGET OF STRATOSPHERE OVER NORTH AMERICA DURING THE WARMING OF 1957	JPRS-16348 N63-10681 02-28
AFCRL-63-429 N63-15394 12-12 CIRCULATION DISTURBANCES IN MESOSPHERE ASSOCIATED	THRESHOLD DETECTORS FOR PENETRATION OF FAST NEUTRONS IN WATER
WITH SUDDEN WARMING OF 1963 METEOROLOGICAL ROCKET METWORK	TEMPERATURE, VOLUME, DESCRIPT TABLES OF THE
ERDA-76 N63-23566 24-09 ARNING DEVICE	TEMPERATURE, VOLUME, PRESSURE TABLES OF THE THERMODYNAMIC FUNCTIONS OF WATER N63-11179 03-23
AIRCRAFT INSTRUMENT FOR WARNING PILOT OF COLLISION	The same or browns that they could be produced.
WITH OHNIDIRECTIONAL RADIO RANGING N63-15530 12-15	TRANSFER OF WATER FROM SOIL TO ATMOSPHERE AS RELATED TO SOIL PROPERTIES, PLANT CHARACTERISTICS, AND MEATHER M63-12167 05-21
RESULTS OF PILOT WARNING INSTRUMENT /PW1/ EVALUATION N63-22653 23-15	EVALUATION OF DIURESIS INDUCED BY IMMERSION IN
	MATER OF VARYING TEMPERATURE NADC-MA-6218 N63-12717 06-18

HOL 2-15 SE -10

-15

ONY -16

-16 IOHY -16

ON -16 ON -16

RIC -16

-16

-16

-23

-16 -13

-23

-21

-15

-23

16

SCATTERING LAW FOR ROOM TEMPERAT	TURE LIGHT WA N63-12726	TER 06-23
HETAL MACHINING PROCESSES - ULTI		STR OS
FTD-TT-62-1357/1	N63-12821	06-17
CLOSED ECOLOGICAL LIFE SUPPORT HATER, OXYGEN, AND FOOD SUPPLY		
UCRL-10589	N63-13073	07-16
INFRARED TRANSMISSION STUDIES - OF WATER VAPOR		
SSD-TDR-62-127, VOL. II	N63-13211	07-23
PORPOISE PERFORMANCE TESTS IN A NAVWEPS-8060	SEA-WATER TA	NK 08-16
SAND STRENGTH OF VIBRATION SPEC	TRUM OF WATER N63-13681	08-05
EXPERIMENTAL DETERMINATION OF CO	DRRECTIONS TO	ROOM
NEUTRON FLUX OF GOLD FOIL IN WA'	TER N63-14567	10-23
DIELECTRIC CONSTANT OF WATER -	ENZYME SUBSTR	ATE
INTERACTION IER SER. 60, ISSUE 476	N63-14823	11-16
15(6) (1) (1) (1) (1) (1) (2) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	ALFER 100, 25, 63	
UTILIZATION OF LUNAR SURFACE REPROGRAMS, HYDROPONICS, WATER AND	SOURCES - LUN D DXYGEN SUPP N63-14984	AR LIES 11-29
ELECTROLYSIS AND LIQUEFACTION O	F WATER OF MO N63-14987	ION 11-29
COMPUTER PROGRAM FOR CALCULATION	N OF BODY-WAT	ER
IMPACT PRESSURE IN SHIP SLAMMIN		11-20
INFRARED SPECTRA OF STARS AND PONTER IN OMICRON CETI		11-05
RHEOLOGICAL BEHAVIOR OF AEROSOL	IN WATER -	
SEDIMENTATION & VISCOSITY STABI	N63-15234	
THERMAL NEUTRON DIFFUSION LENGT	H IN LIGHT WA	TER AT
VARIOUS TEMPERATURES GEAP-4018	N63-15497	12-23
BREAKUP OF WATER JET BY TRANSVE HASA-TH-D-1728	RSE SHOCK WAY N63-15561	12-11
ENERGY BUDGET AT EARTH SURFACE BALANCE IN PLANT COMMUNITY	- ENERGY AND N63-16582	WATER 14-16
LIFETIMES OF ICES OF COMMON VOL	ATTLES /WATER	
CARBON DIOXIDE, METHANE/ IN SOL	AR SYSTEM N63-16702	14-29
MATERIAL REQUIREMENTS FOR BOUND	ARY LAYER	divisate
MATERIAL REQUIREMENTS FOR BOUND STABILIZING COATINGS - WATER AP RM-3018-PR	PLICATION N63-17015	15-19
	must fally LOSS	
ELECTRODIALYSIS FOR RECOVERING URINE AMRL-TDR-63-30	DEA REYAU BED	16-16
Mingle STRANSSON, PERTURA		
POTABLE WATER FROM URINE AMRL-TDR-63-32	N63-17583	16-16
DIRECTOR OF CALLEY CO.O.		
POTABLE WATER RECOVERY FROM AQU DEVELOPED IN FALLOUT SHELTER	N63-17607	16-16
ADRENALINE AND NONADRENALINE IN OF HUMAN IMMERSED IN WATER - CA AMRL-TDR-63-20	TECHOLAMINE N63-17666	16-16
METAL CORROSION OF ZIRCONIUM AL STEAM AT HIGH TEMPERATURE AND P	LOYS IN WATER	AND
AEGL-1724	N63-17810	16-16
FUEL SYSTEM FOR JET ENGINE AFTE TRAVERSE TECHNIQUE	RBURNER USING N63-18583	WATER 17-26

OXIDATION OF MOLYBDENUM DISULFIDE /MOLYBDENITE/ DURING FLOTATION - FACTORS AFFECTING DISSOLUTION

IN DISTILLED WATER	N63-19141 18-07
SOUND AND ULTRASONIC WAVES IN	
NASA-TY-F-96	N63-19157 18-23
ROTOKINETIC EFFECT ON SURFACE AND WATER AT LOW, ATMOSPHERIC	, AND ELEVATED
RSIC-21	N63-19316 10-07
FLUX DISTRIBUTION FOR HYDROGI EPI-THERMAL TO THERMAL FLUX I TEMPERATURES FROM ABSORPTION HW-75278	N AND WATER KERNALS -
HYPERTHERMIA IN DOGS AND ITS WATER DURING MUSCULAR EXERCI:	DEPENDENCE ON BODY SE AT HIGH
JPRS-20748	N63-19874 19-16
WATER RECOVERY FROM CELLULOSI AND URINE NASA-CR-50642	N63-19941 19-07
FREEZING AND DRYING RESISTANI LIVING CELLS - BIOLOGICAL NA NASA-CR-50828	CE MECHANISMS IN
BIOGEOCHEMISTRY OF SULFUR IS METEORITES, MARINE SEDIMENT, SULFUR FRACTIONATION BY AMAE	NTOPES '- SIN FIN TH
MULTIPLE USES OF FOOD, WATER MANNED SPACE FLIGHT - AEROSP	AND PERSONNEL IN ACE MEDICINE N63-20574 20-16
MATER IMMERSION EFFECTS ON A POSITION AND FORCE - HUMAN P NADC-MA-6115	BILITY TO ESTIMATE ERFORMANCE M63-20693 21-14
OXYGEN PRESSURES CALCULATED SYSTEM AND FROM DISSOCIATION ANL-6747	N63-20711 21-07
BALL BEARING WEAR & LUBRICAT X-RAY & RADIGACTIVE TRACER TO AL63T011	ION TEST MACHINE USING ECHNIQUES
ADENINE FORMATION FROM METHA BY ELECTRON IRRADIATION	
HUMAN TOLERANCE TO ARCTIC WI COLD WATER IMMERSION - COLD AAL-TDR-63-24	WEATHER TESTING
WATER-FILM COOLING OF 80-DEG	TOTAL-ANGLE CONE AT
TRANSPORT OF RADIONUCLIDES 1	N FRESH WATER SYSTEM
110-7664 SANSA SAN	N63-23703 24-23
ATER BOILER LINEAR POWER DETECTION AND R SYSTEMS FOR KINETIC EXPERIME NAA-SR-7077	ECONOTHE INSTRUMENT TANK
EFFECT OF HEAT TRANSFER ON C ALLOYS IN BOILER WATERS BHI-1626	ORROSION OF FERROUS
ATER CONTENT CF DENYORATION DETERMINATION OF MATER IN HY CHROMATOGRAPHY JPL-TR-32-362	DRAZINE BY GAS
EFFECTS OF MOISTURE ON THE D PROPERTIES OF AMMONTUM PERCH PROPELLANTS	VNANIC MECHANICAL LORATE-POLYURETHANE N63-13766 00-26
EFFECTS OF AIR CONTENT AND W	NAME OF TAXABLE PARTY OF TAXABLE PARTY.
TENSION AT INCIPIENT CAVITAT	TON IN VENTURE FLOW

DETECTION OF WATER VAPOR ON HIGH DISPERSION, NEAR-INFRARED SPECTROGRAM OF MARS JPL-TR-32-454 N63-23048 24-29

MAT

WATER CONTENT OF LUNAR SURFACE N63-14990 11-29	FROM SPILLED NITROGEN TETROXIDE SSD-TDR-62-177 N63-11134 03-26
WATER COOLED REACTOR CONTAMINATION & DECONTAMINATION OF WATER-COOLED, LOW TEMPERATURE REACTORS - DEPOSITION OF RADIO- NUCLIDES ON ALUMINUM	INFRARED ABSORPTION BY CARBON DIOXIDE, WATER VAPON AND MINOR ATMOSPHERIC CONSTITUENTS AFCRL-62-698 N63-11587. 04-07
DP-788 N63-11816 04-23	INFRARED ABSORPTION BY WATER VAPOR AND NITROUS OXIDE N63-11590 04-07
CHEMISTRY OF MOLTEN-SALT, AQUEOUS, AND SOLID- FUELED NUCLEAR REACTORS AND NUCLEAR SHIP, SAVANNAH DRNL-3417 N63-15441 12-07	GROUND-BASED MICROWAVE RESONANCE METHOD FOR DETERMINING HIGH ALTITUDE WATER VAPOR ABUNDANCE APPLICATION TO OTHER ATMOSPHERIC CONSTITUENTS
NUCLEATE BOILING CHARACTERISTICS AND CRITICAL HEAT FLUX OCCURRENCE IN SUBCOOLED AXIAL FLOW OF WATER COOLED REACTOR SYSTEMS	N63-12357 06-21 VERTICAL DISTRIBUTION OF WATER VAPOR AT LOW
ANL-6675 N63-16483 14-13	LATITUDES AS MEASURED WITH BALLOON-BORNE FROST-
ZIRCONIUM ALLOYS - USE AS CLADDING MATERIALS IN MATER COOLED REACTORS	MRL-5817 N63-12698 06-21
EUR-86-D N63-17393 15-18	HIGH ALTITUDE WATER-WAPOR DETECTORS - HYGROMETERS, VAPOR TRAPS, REFRACTOMETERS AFCRL-63-407 N63-14435 10-15
HEAT ADDITION IN THE EMPIRICAL CORRELATION OF VOID	CLOSE VARIABLE IN TOP CONTROL
FRACTIONS FOR STEAM-WATER FLOW NASA-TN-D-1440 N63-10175 01-13	OXYGEN-MATER VAPOR MIXTURES UNDER RF EXCITATION BY ELECTRON-PARAMAGNETIC RESONANCE TECHNIQUES
TWO-PHASE HEAT TRANSFER INSTABILITY FOR SUBCOOLED	AOMC-RR-TR-62-3 N63-14516 10-07
WATER FLOW AT ZERG GRAVITY ARS PAPER-2548-62 N63-10268 01-06	PERMEABILITY OF PLASTIC SUBSTANCES TO WATER VAPOR N63-15246 12-19
TEMPERATURE FLUCTUATION AT A WETTING FRONT AND	HIGH TEMPERATURE SPECTRAL EMISSIVITIES OF WATER
TEMPERATURE FLUCTUATION AT A METTING FRONT AND RATE ANALYSIS OF WATER FLOW IN SOILS N63-11581 04-23	VAPOR BBE63-002 N63-15369 12-26
PERSONAL PROPERTY AND ADDRESS OF THE PERSON.	AND OF THE PROPERTY AND THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY.
OBSERVATION TECHNIQUES AND RESULTS FOR STUDY OF FLOW OF HEATED HYPERSONIC WAVES N63-15326 12-11	PERMEABILITY CELL AND IONIZATION CHAMBER FOR MEASURING PERMEATION OF PLASTIC FILMS BY WATER VAPOR
ACAS - DESIGNATION LONGINGS FOR THE LONGINGS AND	DP-792 N63-15374 12-15
MYDRODYMANIC MODEL OF RADIOACTIVITY — EQUATING RATE OF WATER FLOW WITH DECAY OF RADIONUCLIDE AEET-AMAL-6 N63-16539 14-23	SEARCH FOR WATER VAPOR AND TRACE ELEMENT IN VENUS
	JPL-TR-32-256 N63-16441 14-29
WATER FLOW VISUALIZATION TECHNIQUES IN GAS TURBINE COMBUSTION CHAMBER STUDY N63-18581 17-06	PHYSICS OF FAST REACTOR - HEAT FLOW AND WATER VAPOR MIXING IN REACTOR TUBES AND CHANNELS
MEASUREMENTS OF BURNOUT CONDITIONS FOR BOILING	N63-18198 16-23
AE-87 N63-20212 20-13 HYDRAULIC POWERPLANT SYSTEM ANALYSIS	WAYE PROPAGATION AND ATMOSPHERIC WATER VAPOR ABSORPTION NEAR 183-GC/S WATER VAPOR LINE N63-18262 17-08
N63-20446 20-11	WATER VAPOR ABSORPTION WITH HELIUM-NEON OPTICAL
VISUAL STUDY OF SWIRLING AND NONSWIRLING TWO-PHASE AIR AND WATER FLOW	MASER N63-18287 17-08
NASA-TM-X-725 N63-20752 21-11 ELECTRIC RESISTIVITY PROBE FOR VOID-FRACTION	HEMISPHERE N63-19561 19-21
MEASUREMENTS IN AIR-WATER FLOW ANL-6738 N63-20894 21-11	WATER VAPOR BALANCE OF THE EARTH AND THE HYDROLOGICAL CYCLE N63-19562 19-21
IMPINGEMENT OF AIRBORNE WATER PARTICLES ON 90-DEG TURNING VANE AEDC-TDR-63-195 N63-22613 23-11	INTERPRETATION OF RADIATION MEASUREMENTS FROM TIROS III METEOROLOGICAL SATELLITE & WATER VAPOR MEASUREMENTS N63-19616 19-21
12 2 Heat	WATER VAPOR MEASUREMENT IN STRATOSPHERE -
WATER LANDINGS OF WINGED REENTRY CONFIGURATION HAVING OUTBOARD FOLDING WING PANELS - MODELS USED	WATER VAPOR MEASUREMENT IN STRATOSPHERE - MESOSPHERE LAYER ABOVE 25 TO 30-KM JPRS-20628 N63-19754 19-21
NASA-TM-X-62 N63-13891 09-11 WATER MODERATED REACTOR WATER MODERATED REACTORS FOR NUCLEAR ROCKETS IN	HIGH TEMPERATURE EMISSIVITY SPECTRA OF WATER VAPOR-CARBON DIOXIDE MIXTURES IN 2.7 MICRON REGION GDA-63-0785 20-26
UNMANNED SPACE FLIGHT N63-13579 08-27	THERMAL STRUCTURE AND WATER VAPOR CONCENTRATION IN
WATER-TUNNEL TESTS OF A HYDROPOIL OF ASPECT RATIO ONE	INFRARED RADIATION INTENSITY N63-21110 21-12
NAVWEP5-7920 N63-11424 03-11	BAND MODEL FOR INFRARED RADIATION ABSORPTION BY WATER VAPOR JPRS-21243 N63-22108 22-23
MATER VAPOR BEHAVIOR OF TURBULENCE CAUSED BY MATER VAPOR	STANDARD STREET THE COLUMN ALL OF STANDARD STANDARD
CONDENSATION IN A SUPERSONIC WIND TUNNEL NOZZLE WGL PAPER-66 N63-10062 01-03	AIRBORNE INFRARED RADIOMETER TO DETECT WATER VAPOR ON VENUS
MIGH-ALTITUDE WATER-VAPOR ABUNDANCE FROM GROUND- BASED MICROWAVE OBSERVATIONS NO3-10459 01-12	SH-42977 N63-22939 23-29 DETECTION OF WATER VAPOR ON HIGH DISPERSION,
STATEMENT ASSESSED AS BROWN AS AND ASSESSED AND ADDRESS OF	NEAR-INFRARED SPECTROGRAM OF HARS

TESTS TO DETERMINE FEASIBILITY OF USING WATER FOG OR THERMAL UPDRAFT TO CONTROL OR DISPERSE FUMES

EXCITATION OF ELECTRON PRESSURE WAVE BY ANTENNAS

MAYE MOTION, ENERGY DISSIPATION, AND GROSS JET TURBULENCE LIMITATION IN FLUID JET MODULATOR N63-13403 08-11

IN THE IONOSPHERE

-24 POR -07

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21

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IN

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R

9

9

FLAPPED HYDROFOIL OSCILLATION IN WAVES -SUBCAVITATION FLOW GD/C-63-032 N63-18110 16-

M63-18110 16-11

WATER VEHICLE OPTIMIZATION OF SILICON-GERMANIUM THERMOELECTRIC GENERATOR FOR MATER VEHICLE POMER SOURCE TRECOM-TR-03-17 N63-19107 10-06	HIGH SPEED FLOW OF FLUIDS THROUGH POROUS MEDIA — CAPILLARY ORIFICE FLOW MODEL, PLANAR PRESSURE WAVE INTERACTIONS, COMPUTER PROGRAM AROD-3005-4 N63-13438 08-11
	A NY JOSE DE LA COUTRE DE LA PRESENTA DE LA PROPERTA DE LA PRESENTA DEL PRESENTA DEL PRESENTA DE LA PRESENTA DEL PRESENTA DEL PRESENTA DE LA
MAYE SA BARDCLINIC WAVE SA BLAST WAVE	STRESS MAVE PROPAGATION AND SPALLATION IN UNIAXIAL STRAIN, ALUMINUM ALLOYS AND COPPER ALLOYS ASD-TDR-62-399 N63-13543 08-33
SA DETONATION WAVE	
SA ELASTIC WAVE	GRIDDED LASER TUBE STUDY, GAIN MEASUREMENT, GAS
SA ELECTROMAGNETIC WAVE	DISCHARGE, AND WAVE POWER N-J-63-606R12 N63-13815 09-23
SA LAMB WAVE	#-J-63-600K12
SA MICROWAVE	EXCITATION OF WAVES IN WARM PLASMA BY ELECTRIC
SA MILLIMETER WAVE	DIPOLE
SA PLANE WAVE	USCEC-82-205 N63-13853 09-24
SA PLASMA MAVE SA RADIO MAVE SA RAYLEIGH MAVE	SPIN WAVES AND NUCLEAR MAGNETIC RESONANCE ENHANCEMENT IN NICKEL FLUORIDE DOMAIN WALLS
SA SEISHIC WAVE	N63-14372 10-23
SA SHOCK WAVE	SURFACE WAVE EXCITATION - PART 1, LAUNCHING THE
SA SPHERICAL WAVE	DOMINANT DIPOLE MODE INTO A CIRCULAR CROSS SECTION
SA STANDING WAVE	DIELECTRIC ROD - PART II, SOMMERFIELD WAVE
SA SUBMILLIMETER WAVE	AFCRL-62-173 N63-14659 10-25
SA SURFACE WAVE	ONE-DIMENSIONAL HYDROMAGNETIC FLOW WITH TRANSVERSE
CF SHOCK WAVE PROPAGATION	MAGNETIC FIELD - SIMPLE WAVE FLOW AND FLOW IN
SPIN WAVE ELECTRON INTERACTION IN MAGNETIC SOLIDS	MAGNETIC FIELD - SIMPLE WAVE FLOW AND FLOW IN CHANNEL WITH SMALL AREA VARIATIONS
N63-10159 01-23	MRC-269 N63-14945 11-20
ANALYSIS OF THE BULBOUS BOW ON SHIPS	POLYURETHANE SOLID PROPELLANT FINITE WAVE AXIAL
N63-10215 01-11	COMBUSTION INSTABILITY
	CARDE-TN-1459/62 N63-15181 11-26
SHIPS WITH ZERO WAVE RESISTANCE N63-10216 01-11	CONTINUOUS-WAVE SONIC AMENDMETER FOR MEASURING
	FLUCTUATION IN VERTICAL WIND VELOCITY
HEAT TRANSFER OF WAVE STRIPS IN A LONGITUDINAL AIR	AFCRL-63-203 N63-15663 12-15
STREAM FTD-TT-62-971/162 N63-10344 01-13	SPIN WAVE SPECTRA OF YTTRIUM- AND GADOLINIUM-IRON GARNET N63-15786 13-23
ELECTROMAGNETIC INDUCTION METHOD FOR MEASURING	United the second secon
PARTICLE VELOCITIES ASSOCIATED WITH STRESS WAVE	UNDAMPED WAVES IN COLLISIONLESS, ELECTRON PLASMA &
PROPAGATION IN BARS	NATURE OF STABLE, SHALL AMPLITUDE, LONGITUDINAL
AROD-2998-1 N63-11679 04-33	WAVES AFCRL-63-259 N63-16131 13-24
PHYTOLIPOPOLYSACCHARIDE - IRRADIATION - ULTRASONIC	The second of the same and the same and the second of the
WAVES - INSULIN JPRS-17239 N63-12014 05-16	EXTREMELY-LOW-FREQUENCY WAVE MOTIONS AFCRL-63-491 N63-16729 14-24
JPRS-17239 N63-12014 05-16	AFCRL-63-491 N63-16729 14-24
FLOW FIELD & PRESSURE DISTRIBUTION MEASUREMENTS ON	AXISYMMETRIC WAVES IN LINEARIZED COMPRESSIBLE
BLUNT-NOSE BODIES - SONIC LINE, BOW SHOCK WAVE	FLOW - MOTION EQUATION D1-82-0205 N63-16842 14-11
SHAPE, STANDOFF DISTANCE ARC-CP-615 N63-12093 05-02	D1-82-0205 N63-16842 14-11
NRC 01 013	PLASHA WAVE EXCITATION BY LINE CURRENT MAGNETIC
CYLINDRICAL WAVE IN VISCOELASTIC SOLID	INDUCTION - RADIO COMMUNICATION WITH MISSILES AND
CU-3-62-ONR-266/34/-CE/A N63-12161 05-23	SPACE VEHICLES AD-283830 N63-16914 14-24
HYDRODYNAMIC THEORY - CALCULATION OF MOTION OF	AD 203030
SHIP IN WAVES	MATHEMATICAL METHOD FOR CALCULATING SHIP HULL
TRG-140-FR N63-12183 05-11	FORMS OF DECREASED WAVE-MAKING RESISTANCE ONR-438 N63-17013 15-11
GENERAL THEORY DESCRIBING DISCONTINUOUS PROCESSES	
AND APPLICATION TO HYDRODYNAMIC INHOMOGENEITIES	STRESS WAVE PROPAGATION FROM OBLIQUE IMPACT ON
SUCH AS COMBUSTION WAVES, COMBUSTION ZONE MOTION N63-12263 05-26	SURFACE OF INFINITE PLATE N63-17069 15-20
NO3-12263 03-20	EXCITATION OF ELECTROACOUSTIC WAVES BY ANTENNAS IN
ULTRASONIC LAMB-WAVE PROPAGATION MODELS FOR	IONOSPHERE
NONDESTRUCTIVE TESTING HN-75499 N63-12725 06-17	NASA-TN-D-1760 N63-17143 15-20
UM-12444 102-15152 00-11	GROUND HAVE PROPAGATION FROM NUCLEAR MEAPON
WAVES IN DRIFTING AND ACCELERATING ELECTRON STREAMS IN RADIAL FLOW	EXPLOSION AT SURFACE
STREAMS IN RADIAL FLOW	DASA-1357/1V/ N63-17321 15-23
IER SER. 60, ISSUE 459 N63-12735 06-23	GROUND WAVE PROPAGATION DUE TO SURFACE NUCLEAR
PROPAGATION OF ELECTROSTATIC PLASMA WAVES IN	EXPLOSION N63-17326 15-23
INHOMOGENEOUS ELECTRIC FIELDS	
A-9 N63-12963 07-24	INTERACTION OF REFLECTED SHOCK WAVE AND LAMINAR BOUNDARY LAYER IN SHOCK TUBE
PROPAGATION OF ULTRASONIC WAVES IN LIQUIDS BY	ARL/A-204 N63-17575 16-11
OPTICAL METHODS	
AROD-2510-10 N63-13055 07-23	ELECTRON DENSITY PROFILES OF WAVE MOTIONS IN LONDSPHERE CAUSED BY NUCLEAR DETONATIONS
EXCITATION OF ELECTRON PRESSURE WAVE BY ANTENNAS	AFCRL-63-440 N63-18018 16-12

N63-13264 07-12

PIEZOCERAMIC PRESSURE TRANSDUCERS FOR SHOCK TUBE PRESSURE MEASUREMENT - SHOCK WAVE PROFILES OF REFLECTED WAVES, THICKNESS AND CURVATURE NASA-CR-50495 N63-18139 16-11	PARTIAL DIFFERENTIAL EQUATION DERIVATION FOR ATMOSPHERIC GRAVITY WAVES NASA-CR-51163 N63-21950 22-11
COMPARISON OF SIX CALCULATION METHODS TO SOLVE A	DYNAMIC CALIBRATION OF OCEAN WAVE RESISTANCE, CAPACITANCE, AND SONIC PROBES
NONLINEAR PARTIAL DIFFERENTIAL EQUATION WITH SHOCKS AND RAREFACTION WAVE - COST AND ACCURACY	N63-22120 22-11
NOLTR-63-8 N63-18260 17-20	K-BAND, CONTINUOUS WAVE TRAVELING WAVE AMPLIFIER - PARTS LIST N63-22520 23-09
COMBUSTION INSTABILITY - RESPONSE OF SOLID PROPELLANT COMBUSTION ZONE TO NORMALLY INCIDENT ONE-DIMENSIONAL PRESSURE WAYES	1000 WATT CONTINUOUS WAVE AMPLIFIER W-J-63-615R10 N63-22651 23-09
N63-18531 17-26	DIFFRACTION OF ELECTROMAGNETIC WAVES BY
QUARTZ HELICAL DELAY TRANSMISSION LINE FOR PROPAGATION OF HIGH FREQUENCY ULTRASONIC WAVES	CYLINDRICAL OBSTACLE AFCRL-63-344 N63-22920 23-08
RADC-TDR-62-553 N63-18676 17-19	ELECTROMAGNETIC WAVE DIFFRACTION IN PLANE METAL
HIGH FREQUENCY AMPLIFIER - INTERACTION OF SPIRALING ELECTRON BEAM & UNLOADED WAYEGUIDE	GRATING WITH SCREEN JPRS-21329 N63-22965 23-08
FIELDS - MICROWAVE SPECTRUM N63-18704 17-09 REFLECTION OF IMPULSIVE SPHERICAL WAVE AT PLANE INTERFACE BETWEEN TWO LIQUID ELASTIC MEDIA -	INTERNAL AND CONVENTIONAL WAVES GENERATED BY HORIZONTALLY MOVING OBJECT IN VERTICAL GRADIENT DENSITY FIELD N63-22973 23-11
SEISMIC WAVES N63-18758 17-12	MEASUREMENT OF ATTENUATION FACTOR AND RELATIVE
PIEZOPHOTOGRAPHY FOR MEASURING AMPLITUDE OF PRESSURE WAVES N63-18761 17-12	FIELD STRENGTH OF SKY AND SURFACE WAVES FOR GROUND PENETRATION AND SIGNAL TRANSMISSION AFCRL-63-382 No3-23405 24-09
STRESS WAVE INTERACTION IN SOIL-LIKE MEDIUM - THEORETICAL ANALYSIS OF BLAST ON UNDERGROUND PROTECTIVE CONSTRUCTION	SPHERICAL STRESS WAVES AND FRACTURES IN SOLIDS PRODUCED BY HYPERVELOCITY IMPACT
SWC-TDR-63-43 N63-18791 18-33	AEDC-TDR-63-197 N63-23611 24-11
NUMERICAL INSTABILITY OF PRIMITIVE WAVE EQUATIONS DUE TO AMPLIFICATION OF INTERNAL GRAVITY WAVES USING ELIASSEN GRID	GUST RESPONSE AND WAVE HEIGHT SPECTRA FROM SPECTRAL THEORY FOR PREDICTING UNSTEADY HYDROFOIL LIFT
AFCRL-63-802 N63-18981 18-21	R-982 N63-23787 24-04
SOUND AND ULTRASONIC WAVES IN AIR, WATER AND SOLID BODIES	WAVE ATTENUATION SA MICROWAVE ATTENUATION
NASA-TT-F-96 N63-19157 18-23	MICROSCOPIC VISCOSITY APPROACH APPLIED TO PROBLEM OF ATTENUATING ELASTIC WAVES IN SOLIDS
FREE SURFACE FLOW - GRAVITY WAVES, JETS AND CAVITIES	NOLTR-63-158 N63-22493 23-23 MEASUREMENT OF ATTENUATION FACTOR AND RELATIVE
NA-63-5 N63-19212 18-11 INFLUENCE OF GROUND INHOMOGENEITIES ON RECEPTION	FIELD STRENGTH OF SKY AND SURFACE WAVES FOR GROUND PENETRATION AND SIGNAL TRANSMISSION
OF SKYWAVE SIGNALS - CONDUCTIVITY CONTRAST NEAR A COASTLINE	AFCRL-63-382 N63-23405 24-09
S-75-R-26 N63-19430 19-08	MAYE DRAG OF CLIPPED ARROW WINGS WITH MODIFIED
PROBLEM OF SKYWAYE FIELD FROM ELECTRIC DIPOLE ON INHOMOGENEOUS PLANE N63-19526 19-23	DOUBLE-WEDGE SECTION N63-10602 02-03
OGUCHI TRANSFORMATION - LOW TEMPERATURE BEHAVIOR OF FERROMAGNETISM - SPIN-MAVE TRANSFORMATION	MAXIMUM CROSS SECTIONAL AREA EFFECT ON DELTA WING MAYE DRAG AND PRESSURE DISTRIBUTION ARC-CP-606 N63-13541 08-03
N63-19770 19-25	WAVE EQUATION
GEOCYCLOTRON - VERY LOW FREQUENCY WAVE COUPLING TO TRAPPED PARTICLES IN THE IONOSPHERE	SA LAME WAVE EQUATION CF LAMB WAVE
AFSWC-TOR-63-35 N63-19891 19-24	SPIN, CHARGE, AND MASS OF BARYONS BY RELATIVISTIC MAVE EQUATION N63-13770 08-20
IONOSPHERIC RECEIVER WITH DOUBLE COHERENT WAVE DETECTORS N63-20523 20-12	WHITTAKER-HILL AND WAVE EQUATION IN PARABOLOIDAL COORDINATES
WAYE AND PULSE MODULATION FOR TRANSMITTING DATA OVER CHANNELS PERTURBED BY GAUSSIAN NOISE	MRC-319 N63-14424 10-20
JPL-TR-32-123 N63-20741 21-08	THEORY OF WAVE EQUATIONS FOR BARYONS N63-14979 11-23
PROPAGATION OF SPHERICAL COMBUSTION WAVES - EFFECT OF VARIOUS DETONABLE GAS MIXTURES AND IGNITION SYSTEM ENERGY	NUCLEAR WEAPONS - WAVE EQUATIONS FOR HALF-SPACE SOLUTION N63-17324 15-23
ARL-63-101 N63-20910 21-26	NONLINEAR THEORY OF PLANE TRAVELING WAVE TUBE -
PIEZOELECTRIC COUPLING BETWEEN ULTRASONIC WAVES AND FREE ELECTRONS IN CADMIUM SULFIDE	NONLINEAR WAVE EQUATION SOLUTION BY SUCCESSIVE APPROXIMATIONS
MIT-TR-181 N63-20974 21-25	RADC-TDR-63-333 N63-18649 17-09
SCATTERING RESONANCE ON FAST-WAYE STRUCTURE PIBMRI-1156-63 N63-21052 21-23	NUMERICAL INSTABILITY OF PRINITIVE WAVE EQUATIONS DUE TO AMPLIFICATION OF INTERNAL GRAVITY WAVES USING ELIASSEN GRID
FABRICATION OF WAVE SUPERHEATER HYPERSONIC TUNNEL CAL-AD-1345-W-7 N63-21248 21-15	AFCRL-63-802 N63-18981 18-21
WAVE DIFFRACTIONS FROM TRUNCATED ROTATING SURFACES	VELOCITY GRADIENT DEPENDENCE OF KINETIC ENERGY OF CONTINUUM - ELASTIC WAVE PROPAGATION EQUATIONS
AND KIRCHOFF OPTICAL THEORY NASA-CR-50998 N63-21359 22-11	CU-3-62-DNR-266/34/-CE/8 N63-19112 18-23

11

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GTHO WAVE PROPAGATION SQLUTION OF BOUNDARY VALUE PROBLEM OF MAYE EQUATION FOR UNSTEADY SUBSONIC FLOW THROUGH VIBRATING STAGGERED CASCADE SELF-CONSISTENT-FIELD WAVE FUNCTION FOR BIFLUORIDE ION N63-21767 22-23 GROUND STATE WAVE FUNCTIONS FOR LINEAR MOLECULES -MOLECULAR STRUCTURE N63-21768 22-23 OF BETHE-SALPETER EQUATION
NONUNIFORM SCALING OF AN APPROXIMATE HYDROGEN
NOLECULAR ION WAVE FUNCTION COMPUTATION ON GROUND STATE WAVE FUNCTION FOR DI-CARBON/DI-NITRIDE MOLECULE N63-21770 22-23 SELF-CONSISTENT-FIELD WAVE FUNCTIONS FOR TRI-NITROGEN AND NITROGEN DIOXIDE MOLECULES IC-TCI-4. SER. 3 M42-10502 01-07 DET BROKHE FOTH 40 HOTT DARKER M63-21772 ... 22-23 EVALUATION OF MATRIX ELEMENTS IN CRYSTALLINE FIELD THEORY, TENSOR ALGEBRA, ELECTRON WAVE FUNCTION M63-10994 02-20 ELECTRONIC WAVE FUNCTION FOR GROUND STATE OF METHANE N63-21773 22-23 VIBRATIONAL MAVE FUNCTIONS AND OVERLAP INTEGRALS
OF VARIOUS BAND SYSTEMS
AVCO-EVERETT RES. REPT.-147 M63-14571 10-2 ONE-CENTER EXPANSION SELF-CONSISTENT-FIELD MOLECULAR ORBITAL ELECTRONIC MAYE FUNCTIONS FOR HYDRIDE HOLECULES N63-21775 22 N63-14571 10-23 FORTRAN III /IBM 7090/ PROGRAM FOR CALCULATION OF SODIUM ION ELECTRON WAVE FUNCTIONS LOCALIZED MOLECULAR ORBITALS IN SELF-CONSISTENT FIELD MAYE FUNCTIONS OF LINEAR MOLECULES -HYBRIDIZATION N63-21780 22 N63-14576 10-20 NA3-21780 22-23 SPHERICAL NUCLEI WITH SIMPLE RESIDUAL FORCES -HAMILTONIAN & WAVE FUNCTIONS, ENERGY LEVELS, MASS NUMBERS, BETA DECAY N63-15727 12-2 LOCALIZED MOLECULAR ORBITALS IN SELF-CONSISTENT FIELD MAVE FUNCTIONS OF LINEAR MOLECULES - ATOMIC CHARGES AND DIPOLE MOMENTS N63-21701 22-2 12-23 NORMALIZATION CONDITION FOR BETHE-SALPETER WAVE FUNCTION AND FORMAL SOLUTION TO BETHE-SALPETER EQUATION RESONANCES AND MAYES IN ONE- AND TWO-ION SPECIES PLASMAS SUBJECTED TO INTENSE MAGNETIC FIELDS NASA-CR-50855 N63-21998 22-24 N63-16328 AF05R-2759 13-23 OBTAINING ELECTRONIC WAVE FUNCTIONS AND STUDY OF CHANGING OXYGEN-HYDROGEN BOND PROPERTIES EXPANSIONS OF SPHEROIDAL WAVE FUNCTIONS N63-16390 14-20 DIRECT PRODUCT REPRESENTATION OF WAVE FUNCTIONS BY COEFFICIENT MATRIX HAVE INTERACTION HIGH SPEED FLOW OF FLUIDS THROUGH POROUS MEDIA -CAPILLARY ORIFICE FLOW MODEL, PLANAR PRESSURE WAVE INTERACTIONS, COMPUTER PROGRAM. N63-16541 14-20 CALCULATION OF SOME ATOMIC INTEGRALS CONTAINING WAVE FUNCTIONS DEPENDENT UPON INTERELECTRONIC DISTANCES - THREE ELECTRON ATOM - QUANTUM THEORY TN-91 N63-16555 14-RADIAL WAVE FUNCTIONS FOR GROUND STATE AND EXCITED STATE OF CESTUM 14-2886 N63-16845 14-18 ELECTROMAGNETIC WAVE INTERACTION AND REFLECTION
FROM PLANE TONIZED MEDIUM - ELECTRON DENSITY
OSCILLATION
AFCRL-63-291 N63-14300 10 WAVE FUNCTIONS, ENERGY LEVELS, AND REDUCED MATRIX ELEMENTS IN INTERMEDIATE COUPLING N63-17609 16-25 SPIN COMPONENT ANALYSIS OF SINGLE SLATER DETERMINANT WAVE FUNCTIONS N63-17964 16-23 ARL-63-129 MATHEMATICAL ANALYSIS OF MIXING OF T EQUALS O AND T EQUALS I COLLECTIVE STATES IN GIANT RESONANCE REGION OF DXYGEN-16 - MAYE FUNCTIONS TABLE OF PLANCK RADIATION FUNCTION - BLACKBODY SPECTRAL RADIANCE AS FUNCTION OF WAVE NUMBER, 77 TO 30,000-DEG K AFCRL-62-877 N63-11858 D DIPOLE POLARIZABILITIES OF LITHIUM PERIOD USING PERTURBED AND UNPERTURBED WAVE FUNCTIONS OF OPEN SHELL TYPE N63-19079 18-23 N63-11858 04-23 STATISTICS DESCRIBING THE KINETIC ENERGY A MOMENTUM TRANSPORT DISTRIBUTIONS OF MIND AS FUNCTIONS OF WAVE NUMBER N63-19563 DIATORIC DRBITALS IN CALCULATIONS OF ELECTRONIC WAVE FUNCTIONS OF DIATOMIC MOLECULES - FORMULAS AND COMPUTATIONAL METHODS STRATOSPHERIC CIRCULATION - SEASONAL VARIATIONS, KINETIC ENERGY BUDGET, WAVE NUMBER ANALYSIS, AND ZONE FLOW N63-21401 22-12 N63-19083 18-23 RELATIVISTIC WAVE FUNCTION IN CALCULATION OF ELASTIC ELECTRON - DEUTERON SCATTERING N63-19636 19-09 EFFICIENCY IMPROVEMENT THROUGH PHASE FOCUSING AND COLLECTOR DEPRESSION IN TRAVELING WAVE AMPLIFIERS, KLYSTRONS, BACKWARD WAVE OSCILLATORS RADC-TOR-62-470 NAVE FUNCTION OF MULTIVALENT ATOM FROM LINEAR DETERMINANTS FORMULATED FROM LAPLACE THEOREM NASA-TT-F-153 N63-20610 20-23

WAVE FUNCTIONS AND CORRESPONDING MOLECULAR ENERGIES FOR DIATORIC MOLECULAR ION OF HELIUM N63-21765 Prest No.

CONSTRUCTION OF SELF-CONSISTENT-FIELD MOLECULAR ORBITAL WAVE FUNCTION AND LCAO-HO POPULATION ANALYSIS N63-21760 22-23

SELF-CONSISTENT-FIELD WAVE FUNCTIONS OF ORBITAL

POSITIONS OF LITHIUM

WAVE PROPAGATION
ELECTROMAGNETIC WAVE PROPAGATION IN PLASMA ACROSS
AN EXTERNAL MAGNETIC FIELD
FTD-TT-62-1107/12264
M63-10331 01-24

MULTIPLE COUPLED LADDER FOR BACKWARD MAVE OSCILLATORS AT MILLIMETER MAYELENGTHS - MICROMAYE M63-18702 17-09

INTERACTION BETWEEN MULTIPLE ELECTRON BEAMS IN MILLIMETER MAVE AMPLIFIERS AND OSCILLATORS - MG3-18706 17-09

EL FR

E

DI AI

HIS WIN SCON WHA NLA POSSA IFFA

The state of the s	100 March 100 Ma
ABSORPTION AND TRANSMISSION OF ELECTROMAGNETIC WAVES BY TWO FERRITE MATERIALS RADC-TOR-62-528 N63-10556 01-23	AROD-1325-16 N63-13661 OB- PROPAGATIONAL PHASE VARIATION MEASUREMENTS AT VI
APPROXIMATION IN PROBLEMS OF WAVE PROPAGATION IN	LOW FREQUENCIES AFCRL-63-44 N63-13694 OB-
COMPLEX VISCOELASTIC MEDIA	SPACE COMMUNICATION - PROPAGATION AND NOISE IN
MAGNETOHYDRODYNAMIC TURBULENCE INVESTIGATION NGS-TOR-62-167 02-24	RADIO-MAYE SPECTRUM - TELEMETRY TRANSMISSION INTERFERENCE REDUCTION N63-13858 09-
REFLECTION AND REFRACTION OF HYDROMAGNETIC MAVES N63-10689 02-24	MAGNETIC FIELD VARIATIONS AND VLF ELECTROMAGNET WAVE PROPAGATION AS INFLUENCED BY LIGHTNING DISCHARGES
SPECTROMETER FOR MEASURING MILLIMETRIC WAVE	AFCRL-62-786 N63-14094 09-
PROPAGATION N63-10785 02-15	CONVENTIONAL SHOCK TUBES FOR GENERATION OF VERY LOW PRESSURE MAYES
HERMODYNAMICS AND PROPAGATION OF CARBON DIOXIDE — NIR DETONATION WAVES AT VARIOUS INITIAL PRESSURES NASA-TN-D-1667 N63-10802 02-23	METHOD OF CHARACTERISTIC ANALYSIS OF DETONATION
INTERPRETATION OF INTERFERENCE FRINGES BY WAVE	WAVE STABILITY - PERTURBATION ANALYSIS AAE-62-2 N63-14966 11
ROPAGATION FCRL-62-1063 N63-10938 02-12	TRANSIENT SOUND WAVE PROPAGATION THROUGH 3-LAYER
MAGNETOHYDRODYNAMIC WAVE PROPAGATION IN DIPOLE	STRATIFIED MEDIUM RM-3478 N63-15195 11-
MAGNETIC FIELD NA3-11124 03-24	ROCKET INSTRUMENTATION FOR MEASUREMENT OF AC
OLUTION FOR ELF WAVE PROPAGATION IN EARTH-	CONDUCTIVITY IN BLACK BRANT ROCKET - LONG WAVE PROPAGATION IN LOWER IGNOSPHERE AFCRL-63-447 N63-15492 12-
ONOSPHERE CAVITY BOUNDED BY INHOMOGENEOUS, INISOTROPIC IONOSPHERIC MEDIUM IFCRL-62-792 N63-11340 03-08	DYNAMICS OF WAVE PROPAGATION IN PLASMA -
FCRL-62-792 N63-11340 03-08 LECTROMAGNETIC INDUCTION METHOD FOR MEASURING	REFLECTION OF ELECTROMAGNETIC MAYES FROM DIELECTRIC WITH VARIANT PLANE LAYER
ARTICLE VELOCITIES ASSOCIATED WITH STRESS WAVE	AFCRL-63-82 N63-15685 12
ROD-2998-1 N63-11679 04-33	DYNAMIC MONLINEAR ELECTROMAGNETIC WAVE PROPAGATION AND HARMONIC RADIATION IN IONOSPHER
EASUREMENT OF GROUND WAVE MOTION IN HALITE -	AFCRL-63-446 N63-15741 12
NE-128F N63-11928 04-23	WAVE PROPAGATION ON HELICES N63-15789 13
OLARIZATION - EXPERIMENTAL OPTICS AND LECTROMAGNETIC RADIATION THEORY	WAVE PROPAGATION ON FREE SURFACE OF ELASTIC SOL NRC-386 N63-15953 13
FCRL-62-796 N63-12024 05-23	BACKSCATTER WAVE PROPAGATION IN RADIO
AS DYNAMICS, COMBUSTION PHYSICS, SHOCK NAVE ROPAGATION, EXTERNAL FRICTION, HEAT EXCHANGE,	COMMUNICATION AFCRL-63-101 N63-16371 14
UPERSONIC FLOW, DENSITY DISTRIBUTION ASA-TT-F-79 N63-12262 05-11	RAYLEIGH WAVE TRANSMISSION ON ELASTIC WEDGE -
IME ANALYSIS STUDY BY PHOTOGRAPHY OF COMBUSTION	SEISMIC WAVES AFCRL-63-258 N63-16479 14
RDCESSES, GAS EXPLOSION, AND WAVE PROPAGATION IN ESSELS OF VARIABLE VOLUME USING HYDROGEN—OXYGEN N63-12265 05-26	TENSILE IMPACT ON RUBBER AND NYLON - IMPULSE WA PROPAGATION AND CREEP IN POLYMERIC MATERIALS - STRUCTURAL DYMANTCS
LTRASONIC LAMB-WAVE PROPAGATION MODELS FOR ONDESTRUCTIVE TESTING	BIREFRINGENT COATING TECHNIQUE FOR STUDYING WAY
W-75499 N63-12725 06-17	PROPAGATION THROUGH A STRUCTURE - CONSTRUCTION OF HIGH SPEED CAMERA AND LIGHT SOURCE
EAST SQUARES METHOD OF CALCULATING SURFACE WAVE ISPERSION IN THE CRUST-MANTLE STRUCTURE OF THE	AROD-2571-3 N63-18694 14
ARTH FCRL-63-219 N63-12732 06-12	PLASMA THEORY - ELECTROMAGNETIC WAVE PROPAGATIO PLASMA SHEATHS RADC-TDR-62-260 N63-16920 14
THOSPHERICS - CALCULATION OF SIGNALS AND ANALYSIS	110 - 15K - 52 - 250 33 MM 31801 A14 40 403-10320
F WAVE PROPAGATION TD-TT-62-1193/16264 M63-12819 06-08	EXPLOSION AT SURFACE
ROPAGATION OF ELECTROSTATIC PLASMA MAVES IN	GROUND MAYS PROPAGATION DUE TO SURFACE NUCLEAR
-9 N63-12963 07-24	EXPLOSION N63-17326 15
TRESS NAVE PROPAGATION AND SPALLATION IN UNIAXIAL TRAIN, ALUMINUM ALLOYS AND COPPER ALLOYS SO-TOR-62-399 N63-13543 08-33	SURFACE MAVE PROPAGATION IN ANISOTROPIC DIELECT SLABS - ELECTROMAGNETIC FIELDS OF EXCITED PLASS PIBMRI-1151-63 N63-17333 15
YNAMIC NONLINEAR WAVE PROPAGATION IN TONIZED	WAVE PROPAGATION IN MAGNETOACTIVE PLASMA AFCRL-63-642 N63-17901 16
FCRL-62-969 N63-13641 08-08	WAVE PROPAGATION ALONG INFINITE YAGI ANTENNA IN
YMAMIC MONLINEAR WAVE PROPAGATION IN IOMIZED OLD STREAM OLD STREAM	PARALLEL PLATE REGION AFCRL-63-108 N63-18006 16
S-32 N63-13643 08-24	SMALL PERTURBATION WAVE PROPAGATION IN MAGNETOGASOVMAMIC CHANNEL FLOWS
LASTIC AND PLASTIC STRAIN IMPULSE PROPAGATION	N63-18059 16-

08-33 VERY

08-08 N S

09-04 ETIC

09-23

RY 11-11

ON 11-11 YER, 11-00 e II 12-09

12-24

RE 12-24 3-08

DL 105 3-23

4-08

4-23 AVE 4-19

VE 4-33

DN -4-24

5-23

5-23 FREC MAS 5-24

-24

-11

ELASTIC WAVE PROPAGATION IN SOLIDS AT MICROWAVE FREQUENCIES - ACQUISTICS N63-18240 17-23
MAYE PROPAGATION AND ATMOSPHERIC WATER VAPOR ABSORPTION NEAR 103-GC/S WATER VAPOR LINE N63-18262 17-08
PADPAGATION, ABSORPTION, AND IONIZATION OF RADIO WAYES IN IONOSPHERE N63-18442 17-12
ISOTROPIC LOCKING - GENERAL THEORY, PROBLEMS OF EQUILIBRIUM-VOLUMETRIC AND DISTORTIONAL LOCKING, AND MAYE PROPAGATION IN LOCKING MEDIA W03-18624 17-25
WAYE PROPAGATION DIRECTION ON PLASMA RESONANCES - RESONANT FREQUENCY SENSITIVITY TO DEPARTURE FROM PURELY TRANSVERSE PROPAGATION NGS-18652 17-24
QUARTZ HELICAL DELAY TRANSMISSION LINE FOR PROPAGATION OF HIGH FREQUENCY ULTRASONIC MAYES RADC-TDR-62-553 N63-18676 17-19
PLASMA WAVE PROPAGATION IN WAVEGUIDES AND WAVE INTERACTION WITH ELECTRON BEAMS FOR MILLIMETER WAVE SIGNAL GENERATORS N63-18712 17-24
CONTINENTAL MAVES IN CENTRAL EUROPE - SEISMIC WAVE PROPAGATION N63-18759 17-12
MAYE PROPAGATION IN AN INHOMOGENEOUS, COMPOSITE NEGLUM N63-19027 18-08
VELOCITY GRADIENT DEPENDENCE OF KINETIC ENERGY OF CONTINUUM - ELASTIC WAVE PROPAGATION EQUATIONS CU-3-62-ONR-266/34/-CE/B N63-19112 18-23
LOG-PERIODIC AND LOG-SPIRAL ANTENNA PROBLEMS - NAVE PROPAGATION, TRANSMISSION, & RADIATION N63-19469 19-08
ELECTROMAGNETISM IN DISTANT GEOMAGNETIC FIELD - MICADSTRUCTURE OF UNSTABLE COLLISIONLESS PLASMA N63-19619 19-28
DEFLAGRATION MAYE PROPAGATION AT SURFACES OF AMMONIUM PERCHLORATE—COPPER CHROMITE—CARBON PELLETS AND THERMAL IGNITION STUDY M63—20061 20—26
NAGNETOHYDRODYNAMICS - POISEUILLE PROBLEM AND SHOCK WAVE PROPAGATION N63-20197 20-24
WAVE PROPAGATION IN A BOUNDED MAGNETOACTIVE PLASMA NASA-CR-50853 N63-20251 20-24
SOUND MAYE PERTURBATIONS IN HYDRAULIC LIMES WITH CLOSED-END SIDE BRANCH - FLOW & PRESSURE WAVES NASA-TN-D-1876 N63-20604 20-11
NONLINEAR ELECTROMAGNETIC WAVE PROPAGATION AND MARMONIC RADIATION IN MAGNETOIONIC MEDIA AFCRL-63-695 20-24
NONLINEAR COUPLING GENERATOR MECHANISH FOR VERY LOW FREQUENCY PLASMA WAVES AFCRL-63-658 N63-20679 20-24
PROPAGATION OF SPHERICAL COMBUSTION WAVES - EFFECT OF VARIOUS DETONABLE GAS MIXTURES AND IGNITION SYSTEM ENERGY
ARL-63-101 N63-20910 21-26
IONOSPHERIC ABSORPTION EFFECT ON YERY LOW FREQUENCY RADIO MAYE PROPAGATION AT HIGH LATITUDES AFCRL-63-856 N63-20918 21-09
LITERATURE SURVEY OF RADIO WAVE PROPAGATION OVER GROUND WITH VARYING ELECTRIC CONSTANTS AFCRE-62-545 N63-21222 21-09
FORMULATION OF THEORY OF PLASTIC WAVE PROPAGATION
IN BARS CU-3-63-ONR-266/86/-CE N63-21283 21-33

PLANE WAVE PROPAGATION IN SEMI-INFINITE THIN VISCOELASTIC ROD AND PROPAGATION OF CYLINDRICAL WAVE FROM CYLINDRICAL CAVITY OF FINITE RADIUS

ACES-69-181220, 187328, MATIARZ 87 N63-21414 C.	22-33
MODELING STUDIES OF SUBSURFACE, VERY LOW FREG WAVE PROPAGATION IN LIQUIDS AND SOLIDS AFCRL-63-353	MENCA
LESSELLES OF STANCES OF THE SECTION	CONSTAR
MICROWAVE RESEARCH - ACOUSTIC MAVE AMPLIFICAT OPTICAL MASERS, FERRITE MONLIMEAR PROPAGATION ML-1060 M53-22911	23-25
ELECTROMAGNETIC MAVE PROPAGATION IN INHOHOGEN	EOUS
IA-102 TA WOTTON NOTSIVAN NO MANY SAN HI SHO	23-08 -17
HYDROHAGNETIC WAVE PROPAGATION IN CONSTANT DI HAGNETIC FIELD	NEUROPA
NASA-CR-51994 N63-23507	24-09
DETERMINATION OF ROCK CONDUCTIVITY FROM VERY FREQUENCY MAYE PROPAGATION MEASUREMENTS AFCRL-63-383 N63-23581	AJUSELD
TRANSHISSION COEFFICIENTS OF WIRE MESH WAVE E DISSIPATORS R63-44 N63-23704	2MILESAS
WAVE RADIATION USBYAN NI DELTADE ON THE STEVEN	
MAYE RADIATION SA SHORT MAYE RADIATION HEASURING THE ELECTRON CONCENTRATION IN UPPER HONOSPHERE AND INTERPLANETARY SPACE BY PLASM RADIATION M69-11531	C-DATE.
ANTENNA DESIGN TO MINIMIZE BACKWARD WAVE RADI	ATION
LOG-PERIODIC AND LOG-SPIRAL ANTENNA PROBLEMS	ME (A4-57)
WAVE PROPAGATION, TRANSMISSION, & RADIATION N63-19469	19-08
MAYE RESISTANCE ANALYSIS OF THE BULBOUS BOW ON SHIPS NA3-10715	NEMER .
SHIPS WITH ZERO WAVE RESISTANCE N63-10216	
MAYE RESISTANCE AND MOMENT VALUES FOR SUBMERG RANKINE SOLID UNDER INTERFACIAL WAVE CONDITION N63-11643	
WAVE RESISTANCE REDUCTION OF SUBHERGED BODY SURFACE GEOMETRY N63-14097	ADR REA
SHIP MODEL WAVE RESISTANCE DATA USING FREE SI AND CONCOMITANT SURFACE WAVES GENERATED BY HE VISCOUS DRAG NG9-18725	ILL ON
SHIPS WITH ZERO AND SMALL WAVE RESISTANCE	20-11
WAVE SCATTERING ELECTROMAGNETIC WAVE SCATTERING - PLASMA DENS PROFILE - SCATTERING AND ABSORPTION CROSS SEC AFESD-TDR-62-249 N63-16875	TIONS
NASA-TN-D-1849	17-23 i
SCATTERING OF OBLIQUELY INCIDENT PLANE LIGHT BY ELLIPTICAL DIFLECTRIC CYLINDERS USCEC-82-211 M63-18910	WERLINGER
MAYEFORM MULTIPLEX TECHNIQUE FOR TELEMETRY - WAYEFORM: N63-11300	O3-O6
CALCULATING FOURIER TRANSFORMS OF WAVEFORMS RE-TR-63-1 44 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	07+08 0 07+08 0 07+08 0
MAIN STAGE OF LONG SPARK - WAVEFORM AND CURRI N63-14909	11-09
DETECTION OF UNKNOWN WAVEFORM SIGNALS IN GAUS	
MC01-1-568	KRIDEAMN 155
SPECTRAL THEORY OF COLOR PERCEPTION AND VISU	ENT/AND

ADAPTATION IN TERMS OF SPATIAL AND HODULATED WAVEFORMS PRODUC			HYDROMAGNETIC WAVE PROPAGATION IN Magnetic field	AMERICA AND ASSESSMENT	POLE
NASA-CR-50351		MAKE BROD	PIBMRI-1175-63	N63-23578	24-0
WAVEFORMS FOR POLARIZED LIGHT CONSTANT AND TIME VARYING PAIR PLATES	OF BIREFRING	ENT	WAVELENGTH RADIO EMISSION OF SUN ON A 1.8-MA	east contratant	03-0
AROD-223-7 INPUT WAVEFORMS TO YIELD TIME-	-LIMITED ORTHO	MI-10602-	PRECISION MEASUREMENT OF RADIO EM	MISSION FROM N63-11534	1 THE 03-0
OUTPUTS AFCRL-62-907	N63-19808	19-09	RADIO ASTRONOMICAL METHOD FOR CAL ANTENNAS AT CENTIMETER WAVELENGTH		SMALI
VARIATIONS IN WAVE FORM OF RAY FUNCTION OF SOURCE DEPTH AND R		AS	Section exerted to	N63-11546	04-0
AFCRL-63-820	N63-20688	20-12	RADIO EMISSION OF MOON ON 3-2 WAY	VELENGTH N63-11551	04-0
WAVEGUIDE EXCITATION OF A CIRCULAR CYLIN CIRCULAR WAVEGUIDE		BY A	CELESTIAL OBSERVATIONS WITH PULKO TELESCOPE ON 33-CM WAVELENGTH	OVO RADIO	1117 229
HURA-644 18665-688	N63-10070	01-23	THE REPORT OF A PERSON NAMED OF THE PERSON NAM	N63-11552	04-0
SULFUR HEXAFLUORIDE IN HIGH-PO SYSTEMS, DIELECTRICS, WAVEGUID	DES	TANGER OF	OBSERVATION OF SOLAR ECLIPSE OF I ON WAVELENGTHS 3.2 AND 1.6-CM	ESTABLE OF	
RADC-TDR-62-443	N63-10902	02-08	SVAN GRAF ATOROGIVAR BY ROLL	N63-11553	04-0
SHOWER DEVELOPMENT AND HEATING STRUCTURE WITH 800-MEV ELECTRO SLAC-3	IN BEAH	04-23	RANGE	MAYELENG N63-13008	07-1
EVAM ARCAIS ON SINCE VIMITEDA			And I a special recommendation of the second		TANKER
SYMMETRICAL WAVEGUIDES - EQUIV ELECTRICAL CHARACTERISTICS UND CONDITIONS	ER ANISOTROPIO		- 47-FA V CAP I - NOT	N63-14374	10-2
PIBMRI-1052-62 PLASHA WAVEGUIDE CELL FOR AFTE	N63-11885	04-09 /F	HIGH CONSTANCY SHORTWAVE DECADE E RANGE OF 1.5 TO 30 MC/S - FREQUEN STABILITY OF AUTOMATIC FREQUENCY	CY GENERATI	
	N63-13090			N63-14552	10-0
HIGH POWER ALUMINA CERAMIC WIN DESIGNED FOR 3-CM BAND .	N63-14418	10-09	TWO WAVELENGTH, STREAK INTERFEROM IONIZED, HEAVY GAS	To AMERICANA	Line (Ga
LONG LINE EFFECT IN CAVITY RES PIBHRI-1148-63	N63-16962	14-08	BRL-MEMO-1448 WAVELENGTH DEPENDENCE OF POLARIZA ASTRONOMICAL PHOTOMETRY OF INTERP		10-1
WAVEGUIDE SWITCHING CIRCUIT IN X-BAND AND S-BAND	SLOTTED ANTEN	INA -	12-13-14 11501-150	N63-15083	11-0
AFCRL-63-138			MONOCHROMATOR WAVELENGTH MODULATO MATT-162	N63-16468	14-1
INTEGRAL EQUATION FOR CURRENTS STRIPS IN WAVEGUIDE - QUASI-ST FOR REACTANCE	ATIC APPROXIMA	TION	METEOR SPECTRA - MAVELENGTH - PHO	TOGRAPHS N63-16643	14-0
PIBMRI-1158-63	N63-17688	16-20	DETECTION TECHNIQUES FOR ELECTRON	IAGNETIC RAD	DIATIO
STANDARD WAVEGUIDES USED TO MA ANTENNAS CAPABLE OF BEING SCAN BROADSIDE			AT SUBMILLIMETER WAVELENGTHS RADC-TDR-63-170	N63-18191	16-0
NEL-1165	N63-17951	16-08	WAVELENGTHS OF RECTANGULAR WAVEGU Space - Tables of Values	IIDES AND FR	EE
REFLECTION OF INCIDENT WAVE FR SHORTED END OF RECTANGULAR WAY	ON THE OBLIQUE	SHIPE, N	E10-63	N63-19145	18-0
TDR-169/3230-22/TN-3		18-24	OF DIFFERENTIAL SCATTERING SPECTA	AA AT 90-DEG	ANGL
WAVELENGTHS OF RECTANGULAR WAY	EGUIDES AND FR	EE	AN-ON ATARKANA	N63-20738	21-2
SPACE - TABLES OF VALUES E10-63	N63-19145	18-09	ISOTROPIC COVERAGE ON SATELLITES COMPARED WITH WAVELENGTH NASA-CR-51321		22-0
ATTENUATION ERROR AS FUNCTION	OF VANE-ANGLE		WAX		P-1777 (B)
RROR - WAVEGUIDE ATTENUATOR NBS-TN-177	N63-19984	19-09	CF PETROLEUN	HILL 30 HOLD	
NONUNIFORM CONVERGENCE OF INVESTIGATION OF THE BOUNDARY VALUE PROBLEMS IN MAY		19-23	MEAPON SA ORBITAL WEAPON SA SPACE WEAPON	ASS. A . APASS.	NAZE
MATRIX DESCRIPTION OF WAVEGUID PRESENCE OF EVANESCENT MODES AFCRL-63-311	N63-20458		CF AIRCRAFT CF DROMANCE PROPOSED TREATY FOR BANNING WEAPO JPL-SM-40-1	ONS IN SPACE N63-10953	
BROADBAND COAXIAL-TO-RIOGE WAY	EGUIDE TRANSIT	21-09	PROPERTIES OF METALS AND ALLOYS F	OR AIR WEAF N63-11721	ONS 04-1
HIGH POWER RADIO FREQUENCY WIN	DOW STUDY USIN		AIR MEAPONS MATERIALS - METALS AN	Anna Sent	A ALIKA
RADC-TDR-63-349	DIN SULTABLE REC.			N63-11722	
LEAKY WAVE RADIATION FROM PERIO	ODICALLY SLOTT	E0	ENERGY REQUIREMENTS FOR DETONATION CARBON BRIDGE HEAPON PRIMERS	N OF WIRE A	ND OF-7

INSTRUMENTATION FOR DYNAMIC DATA ACQUISITION ON ARTILLERY AND ROCKET LAUNCHER HEAPONS - TRANSDUCERS AND RECORDERS N63-16606 14-15

LE

-09

-05 E -05 ALL -05 -05

-05

-05

15 23 IR -09

15

05

09 T LE 23 ER 08

n

	HIGH ENERGY IMPACT DEVICE FOR REPETITIVE FIRING OF LARGE IN DYNAMIC STRESS & FATIGUE MEA	WEAPON COMPONENTS -
	HIGH LOADING RATE TENSILE TO MATERIALS TESTING APPLICATION DYNAMICS	ESTING MACHINE - WEAPON DNS - STRUCTURAL N63-16618 14-17
	MEDIUM LOADING RATE TENSILE WEAPON MATERIALS TESTING API DYNAMICS	TESTING MACHINE - PLICATIONS - STRUCTURAL N63-16619 14-17
	NUCLEAR WEAPONS EFFECT ON HE RTD-TDR-63-3023	ARDENED STRUCTURES N63-22126 22-23
18	MAINTENANCE DESIGN FOR WEAP DEVELOPMENT, PRODUCTION AND MRL-TDR-62-9	ON SYSTEMS - OPERATION M63-13811 09-01
	EQUIVALENT SYSTEMS METHOD FOR RELIABILITY OF ONE-SHOT WEAT	DR EVALUATING PONS SYSTEMS N63-15342 12-01
	PREDICTION OF TRAINING REQUI WEAPONS SYSTEMS - MAM-MACHII FACTORS	
	HUMARO-TR-83	N63-15564 12-14
	PARAMETRIC DESIGN CURVES FOI MISSILES - WEAPON SYSTEMS	R SHORT RANGE BALLISTIC
	RF-TR-63-7	N63-15698 12-04
	DERIVATION OF MAINTAINABILITY	TY REQUIREMENTS FOR
	SP-216 TO TRADING SHITAR	N63-15864 13-01
	INERTIAL GUIDANCE SYSTEMS -	WEAPON SYSTEMS N63-16863 14-06
	TRACKS, SLED STRUCTURES, PRI AND INSTRUMENTATION ADAPTABL TEST PROGRAMS	DPULSION TECHNIQUES, LE TO WEAPONS SYSTEMS
	NOTS-1938, REV. 1	M63-17128 15-10
	ENVIRONMENTAL RELIABILITY TO SYSTEMS	ESTING OF MAVAL WEAPONS N63-17268 15-17
	SOLID FILM LUBRICANTS FOR A	IRCRAFT MISSILES AND M63-17867 16-17
	TRAINING EQUIPMENT FOR VARIE	OUS WEAPONS SYSTEMS
	PRDGRAMS 8SD-TOR-63-127	N63-20144 20-14
	NUCLEAR WEAPONS EFFECT RESE	ARCH N63-20455 20-10
	ELECTRONIC MULTISYSTEM TEST AND ROCKET WEAPON SYSTEMS	EQUIPMENT FOR MISSILE
	CR-63-547-43	N63-20599 20-09
	INFORMATION NECESSARY FOR EL MODERN REAPON SYSTEMS AND OL AMRL-TOR-62-115/II/	FFICIENT OPERATION OF PERATOR PERFORMANCE N63-22596 23-08
	EAPON SYSTEM 133A CF RIMUTERAN ICEM FLIGHT DATA HANDLING AND AN SYSTEM 133A ROCKET MOTOR MS' MTO-198-44	ALYSIS PLAN FOR NEAPON 7 MINUTEMAN STAGE III NOS-22147 22-04
1	EAPON SYSTEM 1938 MINUTENAN ICOM	own withing a view
0	EAR CF CORROSION FF ROSION WEAR AND CORROSION DUE TO AU DISULFIDE TO GREASES	DOITION OF MOLYBOENUM
Ä	RIA-62-2752 INFLUENCE OF HICROSTRUCTURAL	1001USIONS ON UPAN
	THE COURSE OF MICROSIROCTURA	L INCLUSIONS ON WEAR

ENVIRONMENT	NO IRON ALLOYS IN VACUUM N63-15769 13-17
MASA-TH-D-1708 FRICTION AND WEAR AT ELE	And the Art is transfer Ministered Admitter with
WADC-TR-59-603, PT. IV	AN 1963-16109 13-17
SOLID LUBRICANT FILM	RISTICS OF CERAMIC-BONDED M63-17868 16-17
INVESTIGATION TECHNIQUES AEROSPACE BEARINGS ASD-TOR-63-565	FOR FRICTION AND WEAR IN N63-20417 20-17
FRICTION AND WEAR OF MAT	AND THE PROPERTY OF THE PARTY O
METAL SURFACES IN LIQUID NASA-RP-5	N63-20798 21-17
MEATHER SA COLD MEATHER CF METEOROLOGY DYNAMICS OF SEVERE CONVENSSP-9	SAN BESTERNA NO SZASJER SONTENA OMERICONNOS
KINEMATIC PROPERTIES OF SYSTEMS, THUNDERSTORMS A NSSP-11	SMALL-SCALE WEATHER UND SEVERE WEATHER PROJECT N63-10691 02-21
MONTHLY ENERGY BALANCE (WEATHER STATIONS IN THE MO-712	CALCULATIONS FOR OCEAN NORTH ATLANTIC N63-11852 04-21
TRANSFER OF WATER FROM S RELATED TO SOIL PROPERTI AND WEATHER	SOIL TO ATMOSPHERE AS IES. PLANT CHARACTERISTICS. N63-12167 05-21
WEATHER RADAR RECEIVER S	SYSTEM - INSTRUMENTATION, IDEO DISPLAY N63-12758 06-21
	CLOUD OBSERVATIONS WITH SERVATIONS OF PRECIPITATION 12 20 1 463-13560 08-21
CSIR-T-26	N63-15368 12-08
CATALOG OF WEATHER HAPS	FROM TIROS V CLOUD N63-15535 12-32
WERTICAL OZONE DISTRIBUT MEASUREMENT - WEATHER CO AFCRL-63-467	TION - SYNOPTIC
AUTOMATIC PROCESSING OF SATELLITE DATA - WEATHER ANALYSIS	TIROS METEOROLOGICAL MAPPING BY PHOTOGRAPH
ESTIMATED FREQUENCIES OF	SPECIFIED CLOUD AMOUNT
WITHIN SPECIFIED RANGE	NEATHER MAPS N63-16266 13-21
RAINFALL DETERMINATIONS METEOROLOGICAL SATELLITE NASA-CR-50193	BY WEATHER RADAR ON E
SFERIC ACTIVITY AND WEAT	MAR-17019 14-91
FIVE-DINENSTONAL WEATHER SCALE PHOTOGRAPH DISPLAY	RADAR - CAPPE AND SHEY
MLCHE-03-444	MAS-19626 19-21
RS1C-38	CROMAVE TRANSMISSION/ ON A FION INDICATOR /PPI/ N63-19721 19-21
RECORD AND WEATHER RAP I CORRELATION SETWEEN TOTA OBJECTIVE SYNOPTIC PARAM AFCRL-63-868	DETERMINATION OF AL CLOUD AMOUNT AND METERS MOD-21614 22-21
LARCHARD STATE SERVICE CONTRACTOR	- PRESSURE PATTERNS AND

163

WEGG

WE

WE

RAINFALL RSIC-61 N63-21687 22-21	ATMOSPHERIC ELECTRICITY MEASUREMENTS WITH CONDUCTIVITY METER IN NORTH ATLANTIC - FOG
WEATHER CONDITION	PREDICTION NRL-5833 N63-14783 11-1
WEATHER CONDITIONS AND TRAFFIC FLOW AT IDLEWILD AIRPORT - TABLES AND GRAPHS WB-WORKING PAPER 150-2S N63-20617 20-22	WHITE SANDS MISSILE RANGE CLIMATE CALENDAR EROA-20 No3-15949 13-1
WEATHER CONDITIONS EFFECT ON AIRCRAFT MAINTENANCE CREW IN ARCTIC AREAS	MEATHER SATELLITE SYSTEM DESIGN - JET STREAMS, MEATHER FORECASTING, CLOUD PHOTOGRAPHS - TIROS
AAL-10R-63-18 23-10	SATELLITE AFCRL-63-804 N63-19138 18-3
CLOUD FORMATION, SEEDING AND PHYSICS IN WEATHER MODIFICATION AND CONTROL	SOLAR WEATHER FORECASTING - PREDICTING COSMIC RADIATION FOLLOWING SOLAR FLARES
NSF-63-29 N63-19136 18-16	N63-19485 19-2
WEATHER CONTROL THROUGH FIRING AT HAIL CLOUDS WITH ANTIAIRCRAFT GUNS JPRS-20865 N63-20638 20-21	RADAR MAPS FOR WEATHER FORECASTING N63-19675 19-2
VONTA DE	WEATHER FORECASTING BY ANALYSIS OF BAROTROPIC FLO
RELEASE OF AIRBORNE PARTICLES AT HIGH ALTITUDES 6 CONTROLLING MEATHER N63-22679 23-18	AND ATMOSPHERIC WAVE STRUCTURE AFCRL-63-826 N63-19718 19-2
WEATHER DATA RECORDER EXPERIMENTAL INPUT-DATA-HANDLING PROCEDURES FOR WEATHER OBSERVATIONS FROM THE FEDERAL AVIATION	DATA PROCESSING OF RADAR ECHO DISTRIBUTIONS FOR WEATHER FORECASTING AND ANALYSIS N63-19917 19-20
AGENCY MESOMETEOROLOGICAL NETWORK N63-20222 20-21	MOVING-COORDINATE PREDICTION MODELS APPLIED TO
TIROS & NIMBUS METEOROLOGICAL SATELLITE SYSTEMS -	NORTH AMERICAN CYCLONES & WEATHER FORECASTING N63-19937 19-21
DATA ACQUISITION & RECORDING NASA-AL-D-4-63 N63-21336 21-32	METEOROLOGICAL EVALUATION OF 2 TO 7 HOUR WEATHER FORECASTING TECHNIQUES FOR AIR TRAFFIC CONTROL
CF METEOROLOGY	N63-20067 20-21
DEVELOPMENTS IN METEOROLOGY JPRS-16379 N63-10639 02-21	SIMPLIFIED DYNAMIC EQUATIONS FOR ATMOSPHERIC PREDICTIONS - MEATHER FORECASTING AFCRI-63-696 N63-20137 20-21
METEOROLOGICAL SATELLITES FOR MEATHER FORECASTING, NIMBUS AND TIROS SATELLITES N63-11142 03-21	SCORING SYSTEM FOR WEATHER FORECASTS OF CEILING
METEOROLOGICAL SATELLITES AND WEATHER FORECASTING, TEROS SATELLITE N63-11148 03-21	AND VISIBILITY N63-20174 20-22 CLOUD AND CEILING PREDICTION BY ADVECTION AND
MIMBUS SPACECRAFT FOR WEATHER ANALYSIS AND	LINEAR LAG - WEATHER FORECASTING N63-20221 20-21
FORECASTING N63-11460 03-30 RADAR DATA APPLIED TO FORECASTING OF TERMINAL	SPACE & TIME VARIATIONS IN ATMOSPHERIC TRANSMISSION AT RUNWAY - SHORT RANGE WEATHER
MEATHER CONDITIONS AFCRL-62-1019 N63-11710 04-21	FORECASTING FOR AIR TRAFFIC CONTROL N63-20269 20-00
EVOLUTION AND MOTION OF COLD FRONT AND ITS WEATHER SYSTEMS AS SHOWN BY METEOROLOGICAL	AVIATION WEATHER SYSTEM DEVELOPMENT PROGRAM N63-20271 20-21
SATELLITE PHOTOGRAPHS AFCRL-62-867 N63-12081 05-21	TYPHOON AND TERMINAL FORECASTING METHODS FOR THE TROPICS
OPERATIONAL NUMERICAL WEATHER PREDICTION - COMPUTER RESULTS	HAWAII INST. GEOPHYS. REPT37 N63-21019 21-22
ANALYSIS OF SEVERE WEATHER FACTOR IN AUTOMATIC	NIMBUS METEOROLOGICAL SATELLITE SYSTEM FOR DATA ON MORLDWIDE ATMOSPHERIC PROCESSES - REAL-TIME
AIRCRAFT TRAFFIC CONTROL NSSP-12 N63-12689 06-21	WEATHER FORECASTING AND RESEARCH NASA-RP-10 N63-21389 22-30
CORRELATION OF TIROS 1 CLOUD OBSERVATIONS WITH SYNOPTIC SCALE RADAR OBSERVATIONS OF PRECIPITATION AFCRL-63-223 N63-13560 08-21	WEATHER RESEARCH - CLOUD MASS AND PRECIPITATION, VERTICAL MOTION RESOLUTION, AND PROBABILISTIC FORECASTING N63-22241 23-21
NUMERICAL MEATHER PREDICTIONS - GEOSTROPHIC AND NONGEOSTROPHIC MODELS	RECEIVING SETS USED TO RECORD PROCESSES LEADING TO 8 FOLLOWING LIGHTNING AND THEIR APPLICATION TO
AFCRL-62-684 N63-13927 09-21	WEATHER FORECASTING RSIC-55 N63-22461 23-21
PROBABILITY DYNAMICS IN WEATHER FORECASTING - GROWTH OF UNCERTAINTY OF INITIAL STATE OF AFOR, -62-1114 N63-14523 10-21	WEATHER FORECASTING RULES & METHODS - MEASURING ASYMMETRY OF CIRCUMPOLAR CURRENTS RSIC-58 N63-22462 23-21
12-40 \$EBIZE68	OTEL MATER AND THE PERSON AND THE PE
PROBABILITY DYMAMICS IN WEATHER FORECASTING - ESTIMATION THEORY FOR FUNCTIONS OF SPECTRAL DENSITY M63-14524 10-21	DATA REDUCTION AND ANALYSIS TECHNIQUES FOR SMALL- SCALE SURFACE NETWORKS — WEATHER FORECASTING NSSP-17 N63-22726. 23-01
PROBABILITY DYNAMICS IN MEATHER FORECASTING - ESTIMATION THEORY APPLIED TO REAL DATA AD-216319 N63-14525 10-12	WEATHER FORECASTING - WIND FORECAST ERRORS FOR SPECIFIC LOCATIONS, ALTITUDES & SEASONS AWS-TR-170 N63-23079 24-21
STOCHASTIC MODELS FOR INTERPRETING METEOROLOGICAL DATA AFCR1-63-241 M63-14654 10-21	METEOROLOGICAL SATELLITES AND OPERATIONAL WEATHER FORECASTING
APCAL~83-Z41 N63-14654 10-21	

-12 -10

-32

-28 -21 LOW -21

-20

-21 R -22

-21 -22

-21

-08 -21 E -22 04 -32

-21 TO -21

-21 ā -09

-21

R 21

SATELLITE PHOTOGRAPHY AND RADIATION DATA USES IN OPERATIONAL WEATHER FORECASTING AND EARTH ENERGY	SUDAER-160 24-02
BUDGET DETERMINATIONS N63-23444 24-21	WEIBULL DISTRIBUTION LINEAR UNBIASED ESTIMATION OF LOCATION AND SCALE
WEATHER FORECASTING, PHYSICS AND STUDIES OF UPPER ATMOSPHERE	PARAMETERS OF NEIBULL DISTRIBUTION - STATISTICS
JPRS-21412 N63-23547 24-01	DISCRIMINATION BETWEEN TWO WEIBULL PROCESSES
WEATHER FORECASTING AND ATMOSPHERIC STUDIES WITH IMPROVED RELIABILITY N63-23548 24-21	N63-16904 19-20 STATISTICAL PROBABILITY FOR RELIABILITY OF SAMPLE
EATHER STATION	LIFE - WEIBULL DISTRIBUTION N63-17724 16-20
CF METEOROLOGICAL INSTRUMENT CF METEOROLOGICAL STATION STRONTIUM-90 FUEL THERMOELECTRIC GENERATOR POWER SOURCE FOR NAVY FLOATING MEATHER STATION -SNAP 7D NNO-P-2835 N63-15036 11-15	MEIERSTRASS PROBLEM DISCUSSION OF WEIERSTRASS AND BERNSTEIN APPROXIMATION PROBLEMS FOR DIFFERENTIAL AND CONTINUOUS FUNCTIONS IN THE APPROXIMATION THEORY N63-13940 09-20
METEOROLOGY OF TROPICAL PACIFIC VIEWED FROM ENIMETOK ATOLL WEATHER STATION HAMAII INST. GEOPHYS. REPT27	WEIGHT VARIOUS FATIGUE THEORIES AND THEIR EFFECT ON
N63-15178 11-21	STRUCTURAL WEIGHT RM-3650-PR N63-21169 21-33
WIND AND RAIN PROFILES FOR WEATHER STATION AT	WEIGHT DISTRIBUTION AND RELATED PROBLEMS FOR
RSIC-36 N63-19707 19-21	CYCLIC ERROR-CORRECTING CODES S-1015-2 N63-23375 24-09
ANALYSIS OF PRECIPITATION OCCURRENCE USING GROUND GRID-POINT WEATHER STATIONS N63-20078 20-21	WEIGHT ANALYSIS MINIMUM WEIGHT DESIGN OF STRUCTURES OPERATING IN
LARGE ENVIRONMENTAL TELEMETERING SYSTEM FOR OCEANOGRAPHIC AND WEATHER STATION UTILIZATION	AN AEROSPACE ENVIRONMENT ASD-TOR-763
NRL-5902 N63-22663 23-08 RELATIVE HUMIDITY ERRORS RESULTING FROM AMBIGUOUS	DESIGN OF HOT COMPRESSION STRUCTURES FOR AIRCRAFT WITH STRESS-STRAIN AND WEIGHT LIMITATIONS
DEWPOINT HYGROMETER READINGS - WEATHER STATION INSTRUMENTATION	NONDIMENSIONAL APPROACH RAC-973 N63-13555 08-34
AWS-TR-171	ANALYSIS OF WEIGHT PARAMETERS INFLUENCE ON PROPULSION REQUIREMENTS OF ORBIT-LAUNCHED VEHICLES NASA-TN-D-1525 N63-15351 12-34
BER-FECHNER LAN	WEIGHT FACTOR H TO EDITERATIONAL SERVEN TO MACHINE
PERSONNEL DECISION THEORY DEDUCED FROM HUMAN AS TRACKING OPERATOR JPL-TR-32-391 N63-13451 08-14	DATA ACCURACIES AND WEIGHTING FACTORS AT 50-HILLIBARS N63-10575 01-21
EDGE COMBINATION OF MAGNETIC LAYER AND MEDGE-TYPE	ANALYSIS OF THREE CYCLES FOR NUCLEAR PROPULSION OF AIRCRAFT NACA-8N-F50424 NA3-12545 DA-27
RADC-TDR-62-531, VOL. 1 N63-10570 01-23	WEIGHT FACTORS OF BINARY CODE GROUPS
LINEARIZED THEORY FOR ROTATIONAL, SUPERCAVITATING FLOW - APPLICATION TO PREDICTING FORCES ON SLENDER	AFCRL-63-105 M63-17630 16-20 MEIGHTLESSNESS
HYDROFOILS AND WEDGES N63-12434 06-11	CF ZERO GRAVITY TWO-PHASE HEAT TRANSFER INSTABILITY FOR SUBCOOLED
PRESSURE DISTRIBUTION ON IMPULSIVELY ACCELERATED SUPERSONIC WEDGE AS INSIGHT TO FLOW FIELDS OF	NATER FLOW AT ZERO GRAVITY ARS PAPER-2548-62 N63-10268 01-06
MISSILE AND SPACECRAFT FLIGHT SN-42649 N63-13004 07-02	PSYCHOPHYSIOLOGICAL EFFECTS OF PROLUNGED NAMED
OSCILLATING WEDGE SHAPED AIRFOILS IN HYPERSONIC FLOW	SPACE FLIGHT - WEIGHTLESSMESS, COSMIC RAYS ARL-TOR-62-28 N63-11792 04-16
AASU-228 N63-13494 08-03 DIFFRACTION BY A REFRACTING WEDGE	SURFACE ENERGY EFFECT ON LIQUID-VAPOR INTERFACE CONFIGURATION DURING WEIGHTLESSNESS NASA-TN-D-1582 05-26
MRC-297 10-20	SPACE BIOLOGY - EXPERIMENTS ON BEETLES AND BLOOD
RAYLEIGH WAVE TRANSMISSION ON ELASTIC WEDGE - SEISMIC WAVES	PRESSURE - WETGHTLESSNESS AND BALLOON FLIGHTS N63-12632 06-16
AFCRL-63-258 N63-16479 14-23 AERODYNAMIC CHARACTERISTICS IN PITCH OF SEVERAL WING-BODY COMBINATIONS WITH MEDGE-SHAPED PLANFORM	PHYSIOLOGICAL ACCELEROMETERS - BIOMECHANICS, HUMAN TOLERANCE, OTOLOGY, MEIGHTLESSNESS
LOCATED ABOVE AND BELOW A SWEPT DELTA WING NASA-TN-D-1823 N63-17302 15-02	LIQUID DXYGEN STORAGE AND CONVERSION SYSTEM FUR
CAVITATION FLOW PAST CURVED SURFACES - CIRCULAR	ALL CONDITIONS OF GRAVITY AMRL-TDR-62-143 N63-19145 07-16
PLATE, WEDGES - HYDROFOILS N63-18200 16-11 NUMERICAL INTEGRATION OF NONEQUILIBRIUM SUPERSONIC FLOW OVER COMES 6 HEDGES	POSTURAL REFLEXES IN ANIMALS UNDER INCREASED AND DECREASED GRAVITY - ADAPTION UNDER WEIGHTLESSNESS NASA-TT-F-190 N69-13222 OT-16
NASA-TN-0-1942	TONUS OF RABBIT EYE MUSCLE UNDER WEIGHTLESSNESS
CONTROL OF PLANE JETS BY AUXILIARY FLOWS - PHOTOGRAPHIC ANALYSIS OF WEDGE FLOW PATTERNS No9-23505 24-11	MASA-TT-F-191 M69-13223 07-16 POSSIBLE EFFECTS OF WEIGHTLESSNESS ON CALCIUM
SUPERSONIC NONEQUILIBRIUM FLOW OVER A WEDGE	METABOLISM IN MAN - SKELETAL RAREFACTION AND HYPERCALCURTA

SUBJECT INDEX

UR-622	N63-14497 10-16	HLH-1135 ACTIVATION OF A STATE	N63-10421	01-01
HUMAN PERFORMANCE IN WEIGHTLES ROTATION TECHNIQUES AMRL-TOR-62-129	AN ORTHONIA STATE	ELECTRON BEAM, SPOT, FLASH BUTT COMMERCIAL NIOBIUM ALLOYS ASD-TOR-62-292	myramina radio care for	02-18
CAPILLARY ACTION LIQUID OXYGEN WEIGHTLESS SPACE ENVIRONMENT AMRL-TDR-63-10		STAINLESS STEELS WITH REDUCED NI PROSPECTS OF ELECTROSLAG REMELTI JPRS-17016	CKEL CONTENT	AND
SENSITIVITY OF SEMICIRCULAR CA	ANALS DURING	WELDING ARC - POWER SOURCE, SHIE ELECTRODE COVERING MATERIAL		ARC (
TARGET ROTATION SAM-TOR-62-148	N63-16126 13-16	SURFACE FINISH STANDARD FOR RADI	OGRAPHING WE	LDS
EFFECT OF WEIGHTLESSNESS ON HU BEHAVIOR. AND PERFORMANCE		CHANGE IN WELD ZONE RESISTANCE I ALUMINUM ALLOYS		100
MEDICAL-BIOLOGICAL PROBLEMS OF SPACEFLIGHTS - EFFECTS OF OVER AND RADIATION	RLOAD, WEIGHTLESSNESS M63-18452 17-16	INFLUENCE OF INDUCTION HEATING N CURRENT ON CORROSION RESISTANCE OF AUSTENITE STEEL	ITH HIGH FRE OF WELDED JO	QUENCY
PERCEPTION OF MOTION, EQUILIBRE UNDER THE CONDITIONS OF WEIGHT	TLESSNESS	JPRS-17356 JOINING OF NICKEL-BASE ALLOYS	N63-12197	274 35
MOTION CHARACTERISTICS OF TETH OPERATORS	34 WE 1 - WE RED - 1 E - 1 F	SHORT-ARC WELDING OF HASTELLOY-N		06-18
ANRL-MEHO-P-3	N63-19092 18-14	Y-1409 (0.1 - Last) (1.127) 1.100	N63-12636	06-17
SENSATIONS AND PERFORMANCE OF MEIGHTLESS CONDITION AMRL-TDR-62-114	ORBITAL WORKERS IN N63-19335 18-14	CAUSES OF CRACKING IN WELDING AG TEMPERATURE ALLOYS RAC-509	E HARDENABLE	H16H 07-17
DIELECTROPHORETIC DEVICE TO CO TO GASEOUS OXYGEN FOR LIFE SUP WEIGHTLESS CONDITION	ONVERT LIQUID OXYGEN PPORT SYSTEMS IN	EXPOSURE OF WELDED METALS TO CHL	ORINE TRIFLU N63-13093	OR I DE 07-17
AMRL-TDR-63-42	N63-19467 19-15	EXPLOSION WELDING NASA-TT-F-140	N63-13539	08-17
OPERATIONAL ASPECTS OF WEIGHTL SPACE FLIGHT	LESSNESS IN MANNED N63-19493 19-16	BIBLIOGRAPHY - HYDRÓGEN EFFECT O	ON ALUMINUM -	TUA
DYNAMIC RESPONSE CHARACTERISTI AMRL-TDR-63-18		SB-62-68	N63-14828	11-11
MOTION SICKNESS DURING WEIGHTL PROPHYLAXIS AND ETIOLOGY AMRL-TDR-63-25	6546TA11#-02	METHOD FOR DESIGN OF FRACTURE-SA STRUCTURES - WELDMENTS, FORGINGS NRL-5920	N63-14983	IGS 11-34
ETIOLOGY OF VOMITING DURING WE	EIGHTLESS MANEUVER -	INFLUENCE OF ALLOYING ELEMENTS OF TRANSFORMATION AND WELDABILITY OF TERNARY ALLOYS OF IRON - PARTS I	OF BINARY AND	11-11
MOTION SICKNESS EXPERIENCES IN		STRENGTH OF SPOT WELDING OF TITA ROOM AND ELEVATED TEMPERATURES	MICHEL DEPOSITE	OTION
PERSONAL EXPERIENCES DURING WE AIRCRAFT AND ON SUBGRAVITY TOW	WER	NAMC-AML-1319	N63-15402	12-18
PHYSIOLOGICAL EFFECT OF PAOLON	N63-19835 19-16	BIBLIOGRAPHY - COLD WELDING IN V SCIENCE SB-63-5	ACUUM - MATE N63-15479	1019695
ZERO-GRAVITY - PATHOPHYSIOLOGY AMRL-TOR-63-3	Y OF DISUSE N63-21301 21-16	WELDING TECHNIQUES NASA-SP-501	N63-15862	13-17
SENSORY AND MOTOR EFFECTS OF M	N63-21515 22-16	X-RAY IMAGE SYSTEM FOR NONDESTRU SOLID PROPELLANT MISSILE CASE WA	UCTIVE TESTIN	IG OF
INTELLIGIBILITY AND FREQUENCY SPEECH FROM SPACE - BIOLOGY OF		WAL-TR-142.5/1-3 DEVELOPMENT OF PROCEDURE FOR WEL	N63-15955	13-17
DEVELOPMENT OF MOTOR HABITS IN	N STATE OF	TITANIUM ALLOY - NAVY PROGRAM	N63-16204	13-11
WELCHTI SESNESS - SDACE BIOLOGY		ULTRASONIC WELDING OF REFRACTORY	METALS AND	ALLOYS 13-17
VISUAL PERCEPTION OF TARGETS OF PRECEDED BY POSITIVE OR NEGATI ELEVATOR ILLUSION	DURING WEIGHTLESSNESS IVE ACCELERATION -	BERYLLIUM RESEARCH - PURIFICATION DISTILLATION, JOINING BY ULTRAS	ON BY VACUUM	900
SAM-TOR-62-141	M63-22076 22-16	AND FRACTURE CHARACTERISTICS ASD-TDR-62-509, VOL. 11	WELL WILLIAM	15-11
EFFECT OF CONTACT ANGLE AND SP GEOMETRY ON CONFIGURATION OF R LIQUID-VAPOR INTERFACE DURING NASA-TN-D-2075	ROCKET PROPELLANT	WELDING IN A RADIDACTIVE ENVIRON		15-11
WELDING		ULTRASONIC WELDING OF REFRACTORY	METALS AND N63-17581	ALLOYS 16-18
SA ELECTRON BEAM MELDING	WALLES AND THE PARTY OF THE PAR	TANTALUM ALLOYS - STRESS RUPTURE OUCTILITY, WELDING ASD-TDR-62-594, PT. 11	e, DISPERSION	
an old the same	100000000000000000000000000000000000000			- 10

1-01

2-18 MD 4-18 AC (S 14-17 5-17 ENCY 5-17 6-18 6-17 IGH 7-17 TOE 17-17

8-17

1-11

1-34

1-11

2-11 ALS 2-11 3-17 OF NTS 3-17 ICK 3-11 1-11 3-11

LON 5-11 5-11 LOYS 6-18

6-11

AUSTENITE DECOMPOSITION IN WELD: WAL-TR-320.1/12		16-18	INSPECTION A066 PERSON PRINCIPLE OF THE A066
DESIGN CRITERIA FOR ZERO-LEAKAGI LAUNCH VEHICLES - FLOW CALCULATI THROUGH SOLIDS AND WELDED JOINTS NASA-CR-50558	ONS, GAS DI	FFUSION	MELDING AND TESTING PROGRAM OF SUPERALLDYS & STAINLESS STEELS FOR DESIGN & CONSTRUCTION OF HIGH TEMPERATURE GAS LOOP MM-78574 N63-22424 23-18
EFFECTS OF POOL AGITATION ON WEL JOINT PROPERTIES - BIBLIOGRAPHY S8-63-10	MENT ASSESS	NAMED IN	MEST FORD PROJECT MICROMETEORITE COLLISIONS WITH NEEDLES OF WEST FORD PROJECT
HICKEL-CHROMIUM-ALUMINUM ALLOY (HIGH TEMPERATURE TUBING - TENSION WELDING AND BRAZING NASA-CR-50758	ITY TESTS -	BARTSOTV.	AFCRL-63-649 M63-17588 16-29 MEST FORD PROJECT FOR BELTS OF COPPER DIPOLES IN SPACE FOR RADIO SIGNAL PROPAGATION JPRS-21142 M63-21384 22-32
ULTRASONIC WELDING OF REFRACTOR	METALS AND	ALLOYS 18-18	WET CELL MIN-JUNITH-MORT OF THRESHOPHERS SKILLAGING 21 CF SATTERY 1-244 24520100 AMINUTA OTHE EVOLUL
WELDING OF REFRACTORY METALS	N63-19496	19-18	WETTING A SET NO MORE MY PETS A SECTION IN SOCIETY
STATE-OF-THE-ART OF REFRACTORY			EFFECT OF GLASS SURFACE CHEMISTRY ON BOND LIFE AND METTING STUDIES OF AN EPOXY RESIN 163-11301 03-19
WELDABILITY STUDIES OF THREE COI BASE ALLOYS - REFRACTORY METALS PROGRAM			TEMPERATURE FLUCTUATION AT A METTING FRONT AND RATE ANALYSIS OF WATER FLOW IN SOILS N63-11561 04-23
DMIC-MEMO-169	N63-20426	20-18	DYNAMICS OF METTING OF LIQUID METALS IN GRAZING
LOW TEMPERATURE TENSILE & NOTCH AND STRAIN DISTRIBUTIONS, & MELI			AND SOLDERING WAL-TR-650/1 03 200 201 201 201 201 201 201 201 201 201
AUSTENITIC STAINLESS STEELS ARMA-TR-63-08	N63-20624	20-18	TESTS OF OPTICALLY FLAT AND AS-CAST E-GLASS SURFACES - WETTING AND BONDING TENDENCIES
INFLUENCE OF WELDING VARIABLES (AND PLASTICITY OF WELDED ALUMINI PLATE		ALLOY	N63-14042 09-19 MERCURY WETTING AND NON-METTING CONDENSATION
LAP SHEAR STRENGTH OF ROLL SEAM	WELDED TITA	NIUM	N63-15300 12-11
JOINTS A062	H63-21194	21-18	METTABLLITY OF VARIOUS PURE METALS AND ALLOYS ON BERYLLIUM
MECHANICAL AND PHYSICAL PROPERTY	ES OF FUSIO	North	ORNL-3438 N63-17070 15-18
MELDED INVAR 36-IRON-NICKEL ALL	DY		FRACTURE TOUGHNESS OF ALUMINUM ALLOYS NETTED WITH LIQUID ZINC AMALGAM R-1678 N63-19438 19-18
DETERMINING STRENGTH OF BUTT WE	LOED AND LAP	WELDED	ALUMINUM OXIDE WHISKER REINFORCED REFRACTORY
TITANIUN JOINTS AOGIETET DA T DOOR ERGORIA - AT	N63-21371	22-18	METALS - EFFECT OF OXIDE BOND & METTING N63-23517 24-18
PRESSURE IMPULSE FATIGUE TEST OF	F WELDED STA	INLESS	VARIATIVE MEDIE-1081150 VELLEVE INTERVELLORIES
STEEL TUBING	N63-21662	22-33	BURNOUT DETECTOR USING WHEATSTONE BRIDGE
HELIARC FUSION SPOT WELDS OF VA	RIOUS MATERI	IAL AND	EUR-3634F (1986) COLORD FREDERS & CORECT PAGE AND ATMENDED ATMENDE
THICKNESS COMBINATIONS	N63-21872	22-17	SA FLYWHEEL
ELECTRON BEAM WELDMENTS OF COAT	ED AND UNCOA	TED	PERFORMANCE COEFFICIENTS FOR POWERED WHEELS IN SAND - SOIL VEHICLE ANALYSIS 1003-15919 13-10
D-14 NIOBIUM ALLOY	H63-21877	22-18	GENERAL STRESS DISTRIBUTION IN IMPELLER MHEELS ASD-TOR-62-1013 M63-16480 14-33
SHEAR & TENSILE STRESSES IN COR COMPARED WITH PANELS OF RIVETED BONDED CONSTRUCTION	NER NEAR CUT	T-OUTS	FLEXIBLE WHEEL STRESS STRAIN DIAGRAMS ADR-04-05-62-1 ADR-04-05-62-1 ADR-04-05-62-1
ARL/SH 291	N63-22064	22-33	TURBONACHINES - TRANSFERABILITY OF MEASUREMENTS OF
NELDING OF 7000 SERIES ALUMINUM APPLICATIONS	FOR NUCLEAR N63-22320	ROCKET 23-27	SECONDARY FLOW OF COMPRESSOR CASCADE IN CASCADE TUNNEL TO ROTATING TURBINE WHEEL
MATERIAL RED ON FAMILIES OF BRA FITTINGS FOR ROCKET PROPULSION RTD-TDR-63-1027	FLUID SYSTEM	KS TEST	MHIRLING DYNAMIC RESPONSE OF ROTOR SYSTEM WITH GAS LUBRICATED BEARINGS - FLUID FILM DAMPING FACTOR -
PLASMA JET WELDING, COATING, AN	2030 - 2011	ENERGE	INSTABILITY THRESHOLDS FOR DESTRUCTIVE SELF WHIRL
ULTRASONIC WELDING OF SELECTED AND ALLOYS	REFRACTORY P	HETALS	PROPELLER WHIRL INSTABILITY IN WYSTOL AIRCRAFT PROPELLER THRUST, ANGLE OF ATTACK AND FLAPPING EFFECTS NA3-19100 10-04
WELD PARAMETERS - SPEED, AMPERA CONFIGURATION FOR REFRACTORY ME	N63-23665	24-18	MIND-TUNNEL MEASUREMENT OF PROPELLER NHIRL-FLUTTER SPEEDS AND STATIC-STABILITY DERIVATIVES AND COMPARISON MITH THEORY MASA-TH-D-1807 N65-1952 19-23
HLDING TEST		LOMENTS	100 mg 大大学 100 mg 大学 100

				38
WHISKER HIGH STRENGTH OF METALLIC WHISKE THEORY	ERS, FRACTURE		WIDTH	1,05E-81-JAP 7
JPRS-16567	N63-10977	02-18	ATA FOR CERN-LEVANCE CON HTGINGHAG &	10.1 W 4 V. 11(22) RESERVE
FORMATION OF ALUMINA WHISKERS WAL-TR-371/52	HAYUNE CAS	1444	SEQUENTIAL TESTS FOR MEAN OF NORMAL WIENER LEVY PROCESS DRIFT N6:	TO THE DISTRICT SOLLIE
PYROLYTIC GRAPHITE WHISKERS	N63-11293	03-19	DECEMBER OF MELDING AND WELDED	19 90 27,02754
FORMATION AND STRENGTH OF MAGNES			MIENER-SPENCER THEOREM APPLICATION OF WIENER-SPENCER THEORI APERTURE DESIGN RM-225	EM TO ANTENNA
AEROSPACE MATERIALS - REFRACTORY FOAMS, WHISKERS, COMPOSITES, AND TDR-930/2411/TN-1		SPACE	THE LUND OF THE PERSON OF THE	MECOING AND B
OXIDATION REINFORCEMENT OF IRON- ALLOYS WITH ALUMINA WHISKERS	-NICKEL-CHRO	NIUN TEN	OF FIELD OPERATORS OF VACUUM EXP	ECTATION VALUES
DISSOLUTION AND ETCH PITS IN IRO HYDROCHLORIC CUPROUS CHLORIDE, H FLUORIDE, MITRIC, PICRIC, AND SU	ON WHISKERS IN THE STATE OF THE	FERRIC TIONS	WIND SA GEOSTROPHIC WIND SA SOLAR WIND CF STORM MISSILE DESIGN FOR THE EFFECTS OF W	STATE OF THE
ASD-TDR-63-473			N6	3-10384 01-30
EFFECT OF MAGNETIC FIELD ON FERA WHISKER GROWTH	N63-19451	19-18	ERRORS ASSOCIATED WITH ACOUSTICAL WITH THROUGH A LAYER	IND MEASUREMENT
REINFORCEMENT OF NICKEL-CHROMIUM SAPPHIRE WHISKERS			SELWS-M-12 N6: GEOPHYSICS - CLOUDS, WIND, HAIL - CO	3-10541 01-21 RYSTALLIZATION
ALUMINUM OXIDE WHISKER REINFORCE METALS - EFFECT OF OXIDE BOND &	WETTING		OF SUPERCOOLED WATER BY SILVER IDDIT	DE HIARTE STRAIN 30
DATE OF STREET STREET, SALES OF ALL CON-		3808	GROUND WIND AND WIND-INDUCED OSCILLA	ATION TESTS ON
WHISTLER TRANSHISSION OF AUDIOFREQUENCY E WAVES THROUGH EARTHS IONOSPHERE			THE 624A BOOSTER ER-12737	3-11126 03-38
AFCRL-62-797	N63-11039		WIND SPECTRA OF THE TROPOSPHERE AND	LOWER
DATA ON ATMOSPHERICS, RADIO NOIS SOLAR RADIO EMISSIONS	SE, WHISTLERS N63-15256		#1-#0 E #9115-Eon	3-11167 03-12
OBSERVATORY FOR DETECTION OF WHI	STIFES AND		AFCRL-62-1082	3-11437 03-21
ATMOSPHERIC-EMITTED VERY LOW FRE			WIND AND TEMPERATURE FIELDS OF THE	REFORD PARKS
WHISTLER AND VERY LOW FREQUENCY			LOWER STRATOSPHERE AFCRL-62-1023	3-11598 04-21
SALTHOLM, DENMARK, 1960 TO 1961 SEASONAL VARIATIONS	- DIURNAL AN	ND	METEOROLOGICAL DATA - AEROBEE ROCKE SELWS-M-17 N6:	T AC 3.138 3-11604 04-21
WHISTLER MODE-TONIZED STREAM INT AFCRL-63-482	N63-20753	21-12	SONIC ANEMOMETER FOR STUDY OF TURBUL LOADING ON MISSILES	THX 3995551885
RADIATION FIELD, FREQUENCIES, &		F-111	AFCRL-62-1064 N6	3-11860 04-15
ATMOSPHERIC WHISTLERS AFCRL-63-362	N63-21683	22-12	WINDS & MOTIONS OF ATMOSPHERE RELATIONS	ED TO SPACE 3-12589 06-21
CORRELATION BETWEEN WHISTLER-MOD		ON AND		
HIGH FREQUENCY NORTHSCATTER SEL-63-082	N63-22678	23-09	BOOSTER-PAYLOAD EFFICIENCY IN HISSI WINDS ALOFT DCAS-TDR-62-190 N6:	milional atequal
ATMOSPHERIC WHISTLERS - RECORDIN		NG (72)		
METHODS AFCRL-63-714			TWO POINT VARIABILITY OF WIND No.	3-13265 07-21
WHITETOP PROJECT	1,50-00-4	D-NOA	NUMERICAL WEATHER PREDICTIONS - GEO	STROPHIC AND
MHITETOP PROJECT - PRECIPITATION CUMULUS CLOUDS OF SUMMERTIME IN	MISSOURI	M0.288-1	NONGEOSTROPHIC MODELS AFCRL-62-684 N6	3-13927 09-21
WIDE ANGLE LENS WIDE-ANGLE, WIDE-APERTURE OBJECT			WIND FLOW IN 80 TO 400-KM ALTITUDE (ATMOSPHERE - IONOSPHERE - FOR USE II) DESIGN STUDY	N SPACE VEHICLE
RUSSAR 7/ FTD-TT-62-1509/162	32X09218 01	MANYO	NASA-TH-D-1973 No.	3-14273 10-12
THERM MADE BESTSONSELEND MO PROPERTY	AND STEAD	10201	EMPIRICAL AND THEORETICAL STUDIES OF	
SYNCOM SATELLITE PROGRAM - WIDES SPIN STABILIZATION	THE REST	340)14	ENERGETICS - GEOSTROPIC KINETIC ENER SOUTHERN CIRCUMPOLAR VORTEX, TERRES NO.	RGY SPECTRUM, TRIAL RADIATION 3-14914 11-21
ARS PAPER-2619-62	N63-11254	03-09	MAINTENANCE OF SOUTHERN HENISPHERE CI	CIRCUMPOLAR
BROADBAND ANTENNAS - RADIO ANTEN		10-08	VORTEX - ATMOSPHERIC ENERGETICS	3-14916 11-21
HORIZONTAL POLARIZATION OF GEODE FOR WIDEBAND OPERATION	N63-10105		SOUTHERN CIRCUMPOLAR VORTEX AND SPR OF POLAR STRATOSPHERE - ATMOSPHERIC	ENERGETICS
WIDEBAND LUNAR RELAY CONMUNICATE	ONS - ADAPT	IVE	EPKSHOWSK K JAKOONS SOUAR THOLIS TO F	3-14917 11-21

HETEOROLOGICAL DATA FOR LAUNCHING NIKE-APACHE

WIGEBAND LUNAR RELAY CONMUNICATIONS - ADAPTIVE

4-01

ON -5-20

HA

TUN LUES 9-23

1-30 HENT 1-21 ION 2-21 ON -30

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-21 LE

21

21

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SR-007 ROCKET - AIR, WIND, IMPACT PREDICTION - BALLISTIC FACTOR - ROCKET PERFORMANCE FROM-9 N63-15071 11-04	THELVE ROCKET EXPERIMENTS - SODIUM AND CESTUM VAPOR CLOUDS N63-11244 03-12
SATURN SA-1 AND SA-2 FLIGHT TESTS - THERMODYNAMICS AND WINDS	MEASUREMENT OF WIND IN UPPER ATMOSPHERE BY FALLING SPHERES FROM SOUNDING ROCKETS AND BALLOOMS SAD-100
NASA-TH-X-50000 N63-16723 14-20	METEOROLOGICAL ROCKET NETWORK WIND AND TEMPERATURE
METEOROLOGICAL ANALYSES OF ROCKETSONDE WIND AND TEMPERATURE DATA FROM ATMOSPHERE RANGE - 30 TO 80-	DATA - MINTER 1961-1962 IRIG-109-62 N63-14223 09-21
KM - SEASONAL VARIATION N63-17741 16-12 METEOROLOGY - ENERGY CONVERSION, ANGULAR MOMENTUM,	DETAIL WIND DATA AS MEASURED BY THE FRS-16 RADAR SPHERICAL BALLOON TECHNIQUE - RADAR
MASS TRANSFER AND WIND CIRCULATION IN STRATOSPHERE AFCRL-63-435 N63-17783 16-21	TRACKING NASA-TN-0-1572 N63-15692 12-12
MERIDIONAL FLOW WIND CIRCULATION IN STRATOSPHERE N63-17787 16-21	MIND ERRORS FROM SALTON SEA METEOROLOGICAL INSTRUMENT TESTS
HORIZONTAL AND VERTICAL MOTION OF WIND CIRCULATION IN STRATOSPHERE N63-17789 16-21	AFCRL-63-463 N63-16347 14-21 HEAT TRANSMISSION IN LEADS OF ROCKETSONDE
MATHEMATICAL ANALYSIS OF U AND V FIELDS IN POLAR REGIONS - WIND N63-17790 16-21	THERMISTOR, WIND AND TEMPERATURE DISTRIBUTION AND ENERGY EXCHANGE IN STRATOSPHERE M63-16921 14-12
CALLESS AND LANGE LANGE TO THE PROPERTY OF THE PARTY OF T	
WINDS, DIFFUSION, AND EXPANSION OF GAS IN UPPER ATMOSPHERE GCA-TR-62-13-N N63-18335 17-12	WIND AND TEMPERATURE BETWEEN 30 AND 80-RM — THERMISTORS FOR ROCKETSONDE OF UPPER ATMOSPHERE N63-17745 16-12
GCA-TR-62-13-N N63-18335 17-12	SOUTSTAN DEA WESTER FRIENDS - ASTAGRSON CRESHS SOUTS
WIND CIRCULATION IN STRATOSPHERE AND TROPOSPHERE N63-18679 17-21	HIGH RESOLUTION WIND AND WIND SHEAR MEASUREMENT WITH DOPPLER RADAR
HEMISPHERICAL CORRELATIONS OF VERTICAL AND	NASA-CR-50169 N63-10293 17-15 ANEMOMETER FOR MEASURING WIND FLUCTUATION
MERIDIONAL WIND COMPONENTS N63-19556 19-21 STATISTICS DESCRIBING THE KINETIC ENERGY AND	CORRELATIONS AT GROUND PROXEMETY
HOMESTUM TRANSPORT DISTRIBUTIONS OF WIND AS FUNCTIONS OF WAVE NUMBER N63-19563 19-21	IGY ROCKET PROGRAM RESULTS - TEMPERATURE, MIND,
- WATER SEARCHEN THEISTERN HARRISON ON TRACET	DENSITY & RADIATION MEASUREMENTS
RELIABILITY CRITERION FOR SELECTION OF DESIGN STRUCTURAL STRENGTH FOR BUILDINGS SUBJECT TO MIND LOADING N63-20044 19-33	IGY-ROCKET-GRENADE WIND & TEMPERATURE MEASUREMENTS
STRATOSPHERIC WIND CIRCULATION & THERMAL STRUCTURE ERDA-62 N63-20468 20-12	ABOVE GUAM TIME SECTION AND HODDGRAPH ANALYSIS OF CHURCHILL ROCKET AND RADIOSONDE WINDS AND TEMPERATURE
WIND VANE MEASUREMENT OF AERODYNAMIC INCIDENCE - STATIC POSITION ERROR & RELATION TO AERODYNAMIC	COMA STREET, SHETTARS WATE - SCORT THE MASS-19679 19-12
DAMPING AND VISCOUS FRICTION ARC-CP-652 N63-21799 22-02	STUDIES STUDIES
WIND BLAST	ERDA-48
PRE-EJECTION BODY RESTRAINT SYSTEM PROTECTING PARACHUTIST FROM WIND BLAST & Q-FORCE FPRC/MEMO108 4 19-16	WIND MEASUREMENT FOR AEROBEE BALLISTIC TRAJECTORY STUDIES EROA-49 N63-20028 19-21
Forman cast of the	· 19年前的 自由的 1961年12月1日 10日 10日 10日 10日 10日 10日 10日 10日 10日 1
MIND DIRECTION ATMOSPHERIC MISUSE AND SMOKE DIRECTION, DISPERSION AND MIND DIRECTION	METEOROLOGICAL ROCKET FIRING DATA SHEETS - TEMPERATURE & WIND SENSOR INSTRUMENTATION SYSTEMS IRIG-NWG-19-63 No3-21473 22-21
BNL-784/T-298/ N63-22389 23-12	SUPERIORITY OF THREE-CUP ANEMOMETER FOR NATURAL
WIND EFFECT WIND VARIABILITY AND ITS EFFECT ON ROCKET IMPACT	MIND MEASUREMENTS RSIC-56 N63-21606 22-15
PREDICTION N63-12303 05-21	SOUTH ALPINE WINDS - METEOROLOGICAL FLIGHT MEASUREMENTS OF HEAT CONVECTION AND ATMOSPHERIC
VARIATIONS IN VERTICAL DISTRIBUTION OF ATMOSPHERIC	ED-CA-AVE
DENSITY FOR ALTITUDES UP TO 30-KM AFCRL-62-815 N63-14004 09-12	FFN-57 N63-22248 23-04
EOLIAN GEOMORPHOLOGY, WIND DIRECTION, AND CLIMATIC	MESOPHERIC WIND MEASUREMENT FROM ROCKET SOUNDING
CHANGE IN NORTH AFRICA AFCRL-63-443 N63-16380 14-21	AFCRL-63-836 N63-22469 23-21
F. S. St. St. St. Co. Biol. Biol. 10-15-13 (1996)	WIND SPEEDS MEASUREMENT AND UTILIZATION OF WIND
CROSS WIND EFFECT ON SOUND PROPAGATION FROM TWO HIGH ALTITUDE EXPLOSIONS - ACOUSTICS RESEARCH ERDA-27 N63-18850 18-21	PRESSURE FOR POWER TN-MP-21-63 N63-22523 23-21
	MIND MEASUREMENTS TO ESTIMATE AMOUNT OF
CONTROL OF LARGE LAUNCH VEHICLE WITH LIMITED THRUST VECTORING IN PRESENCE OF WINDS	EXTRACTABLE ENERGY TN-WP-22-63 M63-22524 23-21
NASA-TN-D-1951 N63-19609 19-30	ROCKETSONDE WIND AND TEMPERATURE MEASUREMENTS
LOW SPEED HIND SWEEP EFFECT ON PARAWINGS WITH EQUAL-LENGTH LEADING EDGES & KEEL - AERODYMAMIC CHARACTERISTICS	BETWEEN 30 & 70-KM FOR SELECTED STATIONS ERDA-70 M63-22783 23-21
NASA-TH-D-1957 N63-19737 19-03	WEATHER FORECASTING - WIND FORECAST ERRORS FOR

N63-19737 19-03

WIND MEASUREMENT UPPER ATMOSPHERE WIND MEASUREMENTS DETERMINED FROM

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KINEMATIC DIVERGENCE & LARGE SCALE ENERGY CONVERSION PROCESSES ANALYZED FROM WINDS & TEMPERATURE REPORTED BY RAWINSONDE NETWORK AFCRL-63-840.	HIGH RESOLUTION WIND AND WIND SHEAR MEASUREMENT WITH DOPPLER RADAR NASA-CR-50169 N63-18293 17-B
DYNAMIC RESPONSE OF RISING AND FALLING BALLOON	IONOSPHERIC CURRENT - WIND SHEAR IN E-REGION NASA-TN-D-2114 N63-21272 21-12
WIND SENSORS FOR ESTIMATES OF WIND LOADS ON LAUNC VEHICLES NASA-TN-D-1821 N63-23362 24-3	WIND SHEAR MEASUREMENT DIFFERENCES BY RADAR AND RAWINSONDE
WIND MEASURING SET	ERDA-68 N63-21917 22-21
WIND MEASURING SET AN/GMP-20/V/ SYSTEM EVALUATION PERFORMANCE CAPABILITY OF INDIVIDUAL COMPONENTS AFCRL-62-1110 N63-14192 09-1	SCALAR WIND SPEED, AND VECTOR WIND SHEAR ABOVE
WIND PRESSURE	THE RESERVE OF BRIDE AS PRODUCTION OF BUILDING
WIND SPEEDS MEASUREMENT AND UTILIZATION OF WIND PRESSURE FOR POWER TH-MP-21-63 N63-22523 23-2	SHOKE-TRAIL VEHICLE DEVELOPMENT FOR WIND SHEAR MEASUREMENTS 1 NASA-TN-0-2009 N63-23681 24-0
WIND PROFILE TO AND ADDRESS OF METALE BROWNER TASH	WIND TUNNEL TO WANTER AND THE ALTHOUGH AND THE STREET AND THE
MONTHLY & ANNUAL WIND DISTRIBUTIONS AS FUNCTION OF ALTITUDE FOR PACIFIC MISSILE RANGE NASA-TN-D-1569 No3-12003 05-2	F SA HYPERSONIC WIND TUNNEL SA LOW DENSITY WIND TUNNEL
SEASONAL VARIATIONS IN WIND PROFILES IN AREA SOUTH OF RED SEA N63-12058 05-2	WIND TUNNEL INVESTIGATION OF A TWO-DIMENSIONAL
ATMOSPHERIC MECHANICS - PRECIPITATION AND MOISTUR	SURFACE N63-10067 01-81
FLUX, LARGE-SCALE SPECTRA, MEAN MIND STABILITY, SHEAR FLOW, AND QUASI-LAGRANGIAN FLOW COORDINATES AFCRL-63-209 M63-13286 07-1:	SPECTROGRAPHIC INVESTIGATION OF TEMPERATURES IN A PLASMA JET ARC TUNNEL
TEMPERATURE AND WIND MEASUREMENTS ABOVE 50-KM OVE	PA-TM-1001 N63-10087 01-26
WALLOPS ISLAND, VIRGINIA NASA-TN-D-1694 N63-13720 08-1:	CHARACTERIZATION AND SIMULATION CAPABILITIES OF A
CLIMATOLOGICAL WIND AND WIND VARIABILITY BETWEEN 150,000 AND 200,000 FEET - ROCKETSONDE AMS-TR-166 N63-14575 10-2	STATIC STABILITY TESTS IN HYPERSONIC ARC TUNNEL OR BLUNTED CONE AT MACH 20
ENERGY BUDGET AT EARTH SURFACE - MICROMETEDROLOGY	NASA-TN-D-1508 N63-10628 02-W
AND WIND TEMPERATURE PROFILES N63-16581 14-21	SPIKE-BLUFF BODY FOR MONORAIL ROCKET SLED - WIND TUNNEL TESTS RAL-RR-186 N63-10666 02-02
METEOROLOGICAL REPORT - ATMOSPHERIC PHENOMENA AND CLIMATOLOGICAL METHODS - TEMPERATURE GRADIENTS AND MIND PROFILE PARAMETER CALCULATIONS EUR-276-1 N63-18730 17-21	WIND TUNNEL TESTS OF FLOW AROUND A CIRCULAR CYLINDER FITTED WITH HELICAL STRAKES
DEFORMATION OF AIR BODIES IN HORIZONTAL FLOW IN ABSENCE OF ATMOSPHERIC TURBULENT DIFFUSION - WIND FIELD PROFILES	AUTONATIC PRESSURE RATIO INDICATOR FOR WIND TUNNELS ARL/A-198 N63-11043 03-15
AFCRL-63-801 N63-18977 18-21	
UPPER AIR WIND PROFILE FOR SOUTHWESTERN UNITED STATES ERDA-45 N63-19009 18-23	FORWARD SPEED COA-N-133 N63-11286 03-04
15-112 31415-644 APRICANT APPICANT APRICANT APPICANT APPI	CONICAL AND CONTOURED EXPANSION NOZZLES IN
WIND AND RAIN PROFILES FOR WEATHER STATION AT AIKAWA, JAPAN	HYPERVELOCITY FACILITIES CAL-112 N63-11420 03-11
RSIC-36 N63-19707 19-21 PRESSURE DISTRIBUTION MEASUREMENTS AND WAKE SURVEY	WIND TUNNEL INVESTIGATION OF JET BLOWING OVER A WINGLESS MISSILE BODY AT MACH 2.16, 2.48, AND 2.85
ON WING PROFILE WITH LEADING EDGE SUCTION AND WING PROFILE WITH LEADING EDGE SLOT N63-19998 19-0:	HOVERING & WIND TUNNEL TESTS OF POWERED ANNULAR
ATMOSPHERIC WIND PROFILE ANALYSIS IN GEOSTROPHIC	JET - GROUND EFFECTS MACHINE DTMB-430 DTMB-1679 N63-11625 04-92
AFCRL-63-861 N63-22475 23-12	SLIPPER BEAMS MOUNTED ON SUPERSONIC ROCKET SLED
WIND SHEAR IN THE JETSTREAR N63-10634 02-21	RAL-RR-190 N63-11861 04-62
EFFECT OF SMALL WIND SHEAR ON THUNDERSTORM CHARACTERISTICS	BLOWDOWN WIND TUNNEL N63-11909 04-62
AFCRL-62-1127 N63-11600 04-21	PROPERTY MEASUREMENTS
WIND TURBULENCE EFFECT CONCERNING ATMOSPHERIC BALLISTICS - WIND SHEAR, DIRECTION, VELOCITY, AND PROFILES	FROST-1313 N63-12101 05-16 LOW DENSITY HYPERVELOCITY WIND TUNNEL DIFFUSER
RR-TR-63-7 M63-15719 12-21	
WIND SHEAR RESPONSE FOR MISSILE SYSTEMS - FLIGHT	CALCULATER STUDY OF ELOW BRODERTIES OF LOW
CMSC-A003108 A N63-16382 14-21	

NIND TUNNEL INVESTIGATION OF WINGLESS VERTICAL TAKEOFF AND LANDING AIRCRAFT NASA-TN-D-1335 N63-12489 06-02

ENT

17-15

21-12 No

22-21 ES.

24-21

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IN A

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2-02

ND

2-81

2-32

3-15

-84

-11

. 85

-62

-02

110

-02

-10

11

02

NASA-TH-X-5

THRUST AND PUMPING CHARACTERISTICS OF EJECTOR-TYPE EMBAUST NOZZLES AT SUBSONIC AND SUPERSONIC SPEEDS NACA-RM-E54H19 N63-12506 06-02

SUFFETING TESTS OF ATTACK AIRCRAFT MODEL AT TRANSONIC SPEEDS MACA-RM-L57H13 N63-12534 DI

WIND TUNNEL INVESTIGATION AT SUBSONIC & TRANSONIC SPEED OF STATIC AERODYNAMIC AND CONTROL CHARACTERISTICS OF CAPSULE-BOOSTER MODEL NASA-TM-X-317 N63-12559 06-02

PRESSURE DISTRIBUTION ON X-15 AIRCRAFT MODEL NASA-TM-X-275 N63-12646 06-04

WIND TUNNEL STUDY OF WING-TIP BLOWING TO REDUCE DRAG FOR TAKEOFF AND LANDING DTNB-AERO-1043 N63-12720 06-03

AERODYNAMIC CHARACTERISTICS OF AIRCRAFT WITH LIFTING-FAN PROPULSION SYSTEM FOR V/STOL - FULL SCALE WIND TUNNEL IAS PAPER-63-27 N63-12889 07-04

PITCH DAMPING AT LARGE ANGLES OF OSCILLATION FOR PROPOSED MARS ATMOSPHERE-ENTRY VEHICLES - WIND TUNNEL TEST METHODS

IAS-PAPER-63-79 N63-12899 07-32
WIND TUNNEL TESTS OF STATIC STABILITY OF MODEL
X-1E AIRCRAFT AT MACH 2 TO 4

EFFECTS OF TWIST, CAMBER AND THICKNESS ON AERODYNAMIC FEATURES OF 75-DEG SWEPT ARROW WING NASA-TM-X-138 N63-12982 07-03

WIND TUNNEL TESTS OF CIRCULAR PLANFORM AIRCRAFT
WITH PERIPHERAL JET FOR LIFT, THRUST, AND CONTROL
N63-13180 07-04

WIND-TUNNEL TESTS OF THO VTOL PROPELLERS IN DESCENT N63-13221 07-03

AERODYNAMICS OF KAPPA-8 SOUNDING ROCKET - FLIGHT AND MIND TUNNEL TESTS N63-13257 07-02

VELOCITY PROFILES IN KARMAN-POHLHAUSEN MOMENTUM INTEGRAL METHOD WITH SLIP BOUNDARY CONDITION -WALL EFFECTS

SC-4752/RR/ N63-13502 08-

NEASUREMENTS ON AGARD CALIBRATION MODEL - WIND TUNNELS, SCATTERING, TRANSONIC SPEEDS AND TRANSITION AGAROGGRAPH-64 N63-13508 08-02

WIND TUNNEL TEST RESULTS ON AGARD MODEL A - DRAG, BASE PRESSURE, PRESSURE DISTRIBUTIONS, SKIN FRICTION ORAG, LIFT AND PITCH MOMENT N63-13509 08-02

MEASUREMENTS ON AGARD CALIBRATION MODEL 8 IN TRANSONIC SPEED RANGE - WIND TUNNEL TEST WITH AND WITHOUT FIXED TRANSITION M63-13510 08-02

HEASUREMENTS ON AGARD CALIBRATION MODEL B IN MACH NUMBER RANGE FROM 1.4 TO 8 - MIND TUNNEL TESTS, FREE FLIGHT, DRAG AND TRANSITION

REE FLIGHT, DRAG AND TRANSITION N63-13511 08-0

SUBSONIC AND SUPERSONIC WIND TUNNEL STUDY OF LOW ASPECT RATIO SWEPTBACK WING TALLLESS FIGHTER AIRCRAFT MODEL/STABILITY AND CONTROL NGS-13864 09-04

LOW DENSITY ARC HEATED WIND TUNNEL UTILIZING ARGON AND NITROGEN ASU-227 N63-13984 09-10

ELECTRON-ION RECOMBINATION OF ARGON IN WIND TUNNEL MOZZLES
AASU-185 N63-14312 10-II

LOW SPEED WIND TUNNEL ANALYSIS OF ANNULAR-JET CONFIGURATION IN GROUND RANGE NASA-TN-D-1779 N63-14589 10-02

NOZZLE THROAT COOLING - EXPANSION OF PRESSURE AND HIGH TEMPERATURE PLASMAS THROUGH CONVERGING SECTION OF A HYPERSONIC WIND TUNNEL MOZZLE ACC.-TOR-63-58 10-62

PRESSURE GAUGE CALIBRATOR SIMULATION OF MAGNITUDE AND RISE TIME OF PRESSURE PULSES IN SHOCK TUBES AND WIND TUNNELS NOLTR-62-218 N63-14627 10-19

CALIBRATION OF 100-INCH HYPERVELOCITY WIND TUNNEL AEDC-TOR-63-46 N63-14700 II-15

ENERGY TRANSFER IN ELECTRODE AND SETTLING REGIONS
OF ARC-HEATED WIND TUNNEL
AEDC-TDR-63-72 N63-14857 11-13

WING AND FLAP LOADS OF V/STOL AIRCRAFT - WIND TUNNEL STUDY NASA-TH-0-1634 N63-15050 11-04

HEAT TRANSFER RATE MEASUREMENT IN HYPERVELOCITY WIND TUNNEL - THERMOCOUPLE EQUIPPED THIM-CONTINUOUS SKIN MODEL AS HEAT MEASURING DEVICE N63-15063 11-13

CHANCE YOUGHT HYPERVELOCITY WIND TUNNEL TEST FORCE, DYNAMIC STABILITY, PRESSURE, HEAT TRANSFER,
ROCKET EXHAUST EFFECT N63-15184 11-10

CASCADE FLOW IN CASCADE WIND TUNNEL - AERODYNAMIC COEFFICIENT, TURBULENCE EFFECT ON LOSS CO-EFFICIENT, SECONDARY FLOW LOSS DEL-202 M63-15228 11-11

STATIC AERODYNAMIC CHARACTERISTICS OF THREE-STAGE TRAILBLAZER II ROCKET VEHICLE DETERMINED IN LOW TURBULENCE PRESSURE MIND TUNNEL NASA-TN-D-1786

INTERPRETATION OF MEASUREMENTS IN ARC-JET WIND
TUNNEL - HIGH TEMPERATURE RESEARCH
N63-15337 12-11

SUBSONIC HIGH TEMPERATURE ARC HEATED WIND TUNNEL TESTS FOR STRUCTURAL MATERIALS NASA-TR-D-1621 N63-15345 12-10

DISCUSSION OF WIND TUNNEL PRESSURE MEASUREMENT AGARD 163-177 N63-15670 12-01

EFFECT OF CHANGE IN AXIAL VELOCITY ON POTENTIAL FLOW THROUGH CASCADE OF AEROFOILS - TURBOMACHINES AND SOLID WALL WIND TUNNELS

SUBSONIC FLOW INTERFERENCE IN SLOTTED WIND TUNNEL ARL/A-123 N63-16020 14-02

DEVELOPMENT OF PRESSURE TRANSDUCER FOR PRESSURE
MEASUREMENT IN HYPERVELOCITY WIND TUNNEL TESTING
AEDC-TDR-63-135 N63-18749 17-02

IN-FLIGHT PANEL FLUTTER AND WIND TUNNEL TEST DATA ATC-ARTC-32 20-33

HANDHETERS - PRESSURE GAUGES FOR SUBSONIC WIND TUNNELS N63-20804 21-15

MACH NUMBER MEASUREMENTS IN HIGH VELOCITY WIND TUNNELS N63-20007 21-15

TURBOMACHINES - TRANSFERABILITY OF MEASUREMENTS OF SECONDARY FLOW OF COMPRESSOR CASCADE IN CASCADE TURNEL TO ROTATING TURBINE WHEEL

TURBOMACHINES - SUPERSONIC COMPRESSOR TESTS
AND COMPARISON WITH CASCAGE MEASUREMENTS
IN A WIND TURNEL M63-20070 21-02

WIND TUNNEL BALANCE WITH STRAIN GAUGE STRIPS DVL-261 M63-20953 21-10

SHOCK WAVES ON HYPERVELOCITY FLOW IN A SOLID

--- N63-18038

WIND TUNNEL STABILITY TESTS ON CRUCIFORM FINNED MODEL WITH FIXED & FREE SPINNING TAIL ASSEMBLIES

MEASUREMENTS ON AGARD CALIBRATION MODEL C IN TRANSONIC SPEED RANGE - FIXED TRANSITION, BOUNDAY LAYER - PITCHING MOMENT N63-13512 08-62 PROPELLANT DRIVEN TUNNEL FOR SIMULATING CONDITIONS OF SHOCK LOADING ON REENTRY VEHICLES TESTS ON AGARD MODEL D - DAMPING, UNSWEPT W FORCED OSCILLATION, SCATTERING, WIND TUNNEL N63-13513 STEADY EXPANSION OF SHOCK-PROCESSED NITROGEN GAS IN THE REFLECTED SHOCK WIND TUNNEL - PERFORMANCE CHARTS ARC-CP-633 HYPERSONIC WIND TUNNEL TEST - AGARD MODEL E, TRANSFER, PRESSURE DISTRIBUTION, SHOCK WAVES HEAT WIND TUNNEL CALIBRATION PROGRAM - BOUNDARY LAYER CHARACTERISTICS AT MACH 2 THROUGH 5 - VELOCITY PROFILES AND REYNOLDS NUMBER VARIATION N63-13514 HENTSPHERE WIND TUNNEL TEST OF FAN-IN-FUSELAGE MODEL OF ATRCDAFT N63-14688 10-0 WIND TUNNEL MEASUREMENTS, BLADE MOTIONS, AND BLADE AIR LOADS FOR TANDEM-ROTOR HELICOPTERS SUPERSONIC WIND TUNNEL MODEL CALIBRATION AT MACH N63-22116 NASA-TN-D-1971 22-03 AEDC-TDR-63-47 N63-14769 11-15 CALIBRATION OF CASCADE WIND TUNNEL N63-22626 23-10 WIND TUNNEL CALIBRATION HODELS N63-16147 13-10 HYPERSONIC COMPRESSOR BLADE DESIGN AND STUDY OF HYPERSONIC CASCADE TUNNEL WITH 120-DEG TURNING DESIGN AND INITIAL OPERATION OF MAGNETIC SUSPENSION AND FORCE MEASUREMENT SYSTEM FOR WIND TUNNEL MODELS - LEVITATION COIL PASSAGES ARL-63-168 N63-22990 23-03 N63-16372 WIND TUNNEL FACILITIES - NOZZLE CALIBRATION. MODEL SUSPENSION SYSTEM AND TEST INSTRUMENTATION MAXIMUM MODEL SIZE FOR TEST CHAMBER OF NASA-CR-51851 NA3-23012 HYPERSONIC WIND TUNNEL ASD-TDR-63-230 N63-18106 WIND TUNNEL INVESTIGATION OF TURBULENT BOUNDARY LAYER NOISE AS RELATED TO DESIGN CRITERIA FOR HIGH-PERFORMANCE VEHICLES DETERMINATION OF AERODYNAMIC HEATING RATES USING CALORIMETRIC MODELS IN HYPERSONIC WIND TUNNEL NASA-CR-51730 N63-23033 24-02 NASA-CR-50624 N63-18491 TRANSFORMATION OF AXES SYSTEMS BY MATRIX METHODS GROUND EFFECT WIND TUNNEL TEST OF LOW ASPECT RATE AND APPLICATION TO WIND TUNNEL DATA REDUCTION AEDC-TDR-63-224 N63-23666 AIRFOIL DTMB-AERO-1056 N63-19883 19-81 FREE STREAM CONTROL FOR LOW SPEED WIND TUNNEL-PULSATING FIELD, STATIC PRESSURES AND VELOCITY SIMULATION OF ENGINE THRUST IN WIND TUNNEL MODEL
TESTS - MEASURING APPARATUS N63-20190 20-DISTRIBUTIONS WIND TUNNEL TESTS OF WINGLESS LOW ASPECT RATIO FOLDING CONTROL MISSILE CONFIGURATIONS NACA-RM-A58F30 N63-20532 28 N63-23728 24-10 FTD-TT-62-1476/162 20-62 WIND TUNNEL APPARATUS SA SUPERSONIC WIND TUNNEL APPARATUS LOW DENSITY HYPERVELOCITY WIND TUNNEL DIFFUSER FREE-FLIGHT MEASUREMENTS OF DYNAMIC LONGITUDINAL STABILITY CHARACTERISTICS OF WIND TUNNEL PERFORMANCE INTERFERENCE MODEL AEDC-TOR-63-30 N63-12254 05-11 ARC-CP-648 N63-21295 21-02 BALANCE SYSTEM TESTING IN LOW SPEED WIND TUNNEL AT SOUTHAMPTON UNIVERSITY WIND TUNNEL STABILITY TEST WIND TUNNEL TESTS OF BLUNT REENTRY VEHICLE WITH RETRACTABLE WINGS AASU-208 N63-14401 10-15 DESIGN AND OPERATION OF HYPERSONIC WIND TUNNEL EQUIPPED WITH ASYMMETRIC CONTOURED NOZZLE AND INJECTION-TYPE MODEL SUPPORT SYSTEM NASA-TH-X-398 N63-13904 STRUCTURAL LOAD SURVEYS ON TILT-WING VTOL AIRFRAME VIBRATORY LOADS OF VZ-II VTOL AND WING LOADS OF RESEARCH MODEL IN WIND TUNNEL TESTS AFDC-TD8-62-229 N63-15113 SHORT ARC WIND TUNNEL IMPROVEMENT - REVOLVING ARC 12-24 IN HIGH PRESSURE CHAMBER N63-15331 WIND TUNNEL TEST OF GROUND EFFECT OF 35-DEG SWEPT-BACK WING JET TRANSPORT EQUIPPED WITH BOUNDARY LAYER CONTROL, TRAILING & LEADING EDGE FLAPS MASA-TN-D-1884 163-15922 1 IND TUNNEL INSTRUMENTATION - MEASURING EQUIPMENT CALIBRATIONS AT WHITE SANDS MISSILE RANGE N63-17234 ERDA-24 AEROELASTICITY - WIND TUNNEL TEST METHODS FOR MEASURING OSCILLATORY DERIVATIVES OF AIRCRAFT MODELS - STABILITY AND FLUTTER WIND TUNNEL MODEL
ANNOTATED BIBLIOGRAPHY - MAGNETIC SUSPENSION OF WIND TUNNEL MODELS AEDC-TDR-63-20 N63-17820 N63-12750 06-02 MEASUREMENTS ON AGARD CALIBRATION MODEL - WIND TUNNELS, SCATTERING, TRANSONIC SPEEDS AND AERGELASTICITY - WIND TUNNEL TEST METHODS FOR SCALE MODEL FLUTTER N63-17823 TRANSITION WIND TUNNEL INVESTIGATION OF STATIC AND DYNAMIC-ROTARY STABILITY DERIVATIVES OF FLAT-TOP WING BODY N63-17989 16-82 N63-13508 08-02 AGARDOGRAPH-64 WIND TUNNEL TEST RESULTS ON AGARD MODEL A - DRAG, BASE PRESSURE, PRESSURE DISTRIBUTIONS, SKIN FRICTION DRAG, LIFT AND PITCH MOMENT WIND TUNNEL INVESTIGATION OF STATIC AERODYNAMIC CHARACTERISTICS OF SCALE MODEL OF REENTRY CAPSULE N63-13509 08-02 MEASUREMENTS ON AGARD CALIBRATION MODEL B IN TRANSONIC SPEED RANGE - WIND TUNNEL TEST WITH AND WITHOUT FIXED TRANSITION N63-13510 STATIC STABILITY EVALUATION OF HERCURY CAPSULE IN WIND TUNNEL AT TRANSONIC, SUPERSONIC AND HYPERSONIC SPEED

N63-13511 08-02

NASA-TH-X-433

MEASUREMENTS ON AGARD CALIBRATION MODEL B IN MACH NUMBER RANGE FROM 1.4 TO 8 - WIND TUNNEL TESTS, FREE FLIGHT, DRAG AND TRANSITION UNDARY 08-02 1G. 08-62 HEAT AND 08-02

VTOL 10-04 ACH 11-15 13-10 IND 14-02

16-10 ING 7-13 OITAS 9-03 EL 10-15 0-02 AL

1-02 H 9-32 RAFT 0-33 PT--03

-33 -33 -001 -02

LE -30

IN

DINGLOSINA SOT TALS SO ADTICLESTORA N63-12579 - 06-2

NORMAL FORCE OF DISTRIBUTION - PITCHING AND YAM NOLTR-63-79 W N63-18326 17-02	TRAVELING WAVE TUBES, CRYSTAL LAMPS, CERAMIC MINDOWS, MAGNETS, SECONDARY ENISSION FROM TUMESTEN SURFACE BUMBARDHENY, CRYSTAL FIELDS, GASEOUS MASER
WIND TUNNEL TESTS TO DETERMINE EFFECT OF FIN SIZE, FIN CANT, AND AUXILIARY ROCKET ENGINES ON ROCKET VEHICLE CONFIGURATIONS AT MACH 1.80 TO 4.63 NASA-TR-D-1929 N63-18467 17-02	HIGH POWER ALUMINA CERARIC WINDOW-WAVEGUIDE DESIGNED FOR 3-CM BAND N63-14418 10-09
AERODYNAMIC LOADING CHARACTERISTICS OF MODEL THREE-STAGE SCOUT VEHICLE AT MACH 1.57 TO 4.65 -	WINDOWLESS TUBES FOR X-RAY SPECTROSCOPY N63-19475 19-15
MIND TUNNEL TESTS NASA-TN-D-1930 N63-18500 17-02	COMPUTER DESIGN FOR NUMBER DISCRIMINATOR AND WINDOW SELECTOR CIRCUIT
WIND TUNNEL STABILITY AND CONTROL TESTS OF FLEXIBLE WING MANNED AIRCRAFT - PARAMING NASA-TN-D-1945 19-04	HIGH POWER RADIO FREQUENCY WINDOW STUDY USING
NASA-TN-D-1946 N63-19736 19-04 SUPERSONIC WIND TUNNEL STABILITY TESTS OF WINGLESS	COMPUTER TO SOLVE WAVEGUIDE PROBLEMS RADC-TDR-63-349 N63-21262 21-09
MISSILE MITH SIDE JET WINGS DTMB-AERO-1055 N63-19882 19-03	WINDSHIELD PROTECTION OF FUSELAGES AND WINDSHIELDS BY AN
WIND TUNNEL TEST ON CIRCULAR ANNULAR JET GROUND EFFECT MACHINE N63-22128 22-04	INTERLAYER SATURATED WITH GASES FGT-3023 N63-21307 21-11
MIND TUNNEL TEST OF AERODYNAMICALLY CONTROLLED TILTING-MING VERTICAL TAKEOFF AND LANDING AIRCRAFT DTMB-AERO-1057 N63-22769 23-03	WING SA ARROW MING SA CANTILEVER WING SA CLIPPED WING
WIND TUNNEL TESTS ON CIRCULAR MODEL GROUND EFFECT MACHINE - ANALYSIS OF RESULTS ON LIFT, DRAG & PITCHING MOMENT N63-22884 23-04	SA CRUCIFORM WING SA DELTA WING SA ELIPTICAL WING
WIND VELOCITY ROCKET SOUNDING OF UPPER ATMOSPHERE FOR ION DENSITY, WIND VELOCITY, TEMPERATURE DISTRIBUTION COSMIC RAYS, AND ELECTRON DENSITY N63-13255 07-12	SA FLYING SA JET WING SA MUSTANG WING SA PARAMING SA SWEPT WING SA SWEPTBACK WING
N63-13255 07-12 CONTINUOUS-WAVE SONIC ANEMOMETER FOR MEASURING FLUCTUATION IN VERTICAL WIND VELOCITY AFCRL-63-203 N63-15663 12-15	CF AIRFOIL CF ROTOR AERODYNAMIC DEVELOPMENT OF THIN WINGS FOR SUPERSONIC AIRCRAFT
WIND TURBULENCE EFFECT CONCERNING ATMOSPHERIC BALLISTICS - WIND SHEAR, DIRECTION, VELOCITY, AND PROFILES RR-TR-63-7. N63-15719 12-21	LIGHTMEIGHT ALLOY AND SLENDER WING DESIGN FOR SUPERSONIC TRANSPORT AIRCRAFT MGL PAPER-6 N63-10005 01-04
IBM 704 COMPUTATION OF AIR TRAJECTORIES IN BOUNDARY OF ATMOSPHERIC TURBULENCE - WIND VELOCITY N63-16042 13-21	THREE-DIMENSIONAL MEASUREMENTS OF SYMMETRICAL MINGS OF VARIOUS PLANFORMS IN SUPERSONIC FLOW MGL PAPER-12 M63-10010 01-03
MATHEMATICAL MODEL FOR EXTREME VALUE OF WIND- VELOCITY PROFILE BASED ON MULTIVARIATE GAUSSIAN DISTRIBUTION OF HORIZONTAL COMPONENT	EXHAUST-TYPE WINGS AND THEIR APPLICATION IN AIRCRAFT DESIGN DFL-62/35
NASA-TM-D-1813 N63-18461 17-33 ANEMOMETER FOR UNSTEADY WIND VELOCITY MEASUREMENTS N63-20581 20-15	WING AND FUSELAGE CONCEPTS FOR SUPERSONIC AIRCRAFT DAC-31041 01-34
OPTIMUM WIND VELOCITY DETERMINED BY MAXIMUM ENERGY OUTPUT AND MINIMUM ENERGY COST ESTIMATE FOR WIND	SELECTION METHODS AND APPROXIMATE CALCULATION OF AIRCRAFT DESIGN PARAMETERS FTD-TT-62-751/1262364 N63-10297 DI-04
MACHINES NAL-TN-NP-20-63 N63-20948 21-21	COMPARISONS OF LARGE AND SMALL MODELS OF SLENDER
HOURLY WIND SPEEDS AT BOMBAY - WIND POWER	HINGS IN A TRANSONIC WIND TURNEL N63-10456 DI-03
MAL-TN-MP-19-62 N63-20949 21-21	RELATIONSHIP BETWEEN FLUTTER PARAMETERS AND GENERALIZED AERODYNAMIC FORCES FOR LOW ASPECT
ATMOSPHERIC TURBULENCE - WIND VELOCITY AND TEMPERATURE DISTRIBUTION IN GROUND SURFACE LAYER JPRS-21143 22-11	ASD-TDR-62-462 N63-10470 01-33
PROBABILITY LIMITS FOR ATMOSPHERIC TEMPERATURES, SCALAR WIND SPEED, AND VECTOR WIND SHEAR ABOVE	APPLICATION OF THE MASA KERNEL-FUNCTION PROCEDURES TO GENERALLY DEFORMING MINGS N63-10471 01-33
10-KN ERDA-75 N63-23560 24-21 WINDING	PROPELLER SLIPSTREAM EFFECTS AS DETERMINED FROM WING PRESSURE DISTRIBUTION OF A LARGE-SCALE SIX-PROPELLER VIOL MODEL AT STATIC THRUST MASA-TWO-1509 01-04
S FILAMENT WINDING	MING LEADING EDGE OPTIMIZATION FOR GLIDE REENTRY
TURBOMACHINES - PERFORMANCE OF TURBOJET ENGINES DURING STARTING BY MINDMILLING	VEHICLES NOS-12002 03-13 TESTS ON A CIRCULAR GROUND EFFECT MACHINE NITH
N63-20875 21-02	TESTS ON A CIRCULAR GROUND EFFECT MACHINE WITH FORWARD SPEED COA-N-133 N63-11286 03-04
MINDOWLESS TUBES FOR X-RAY SPECTROSCOPY N63-12579 06-23	TRANSDUCER SYSTEM FOR MEASURING SKIN TEMPERATURE OF WING PANEL AND LEADING EDGE OF DYMA-SOAR

HING PLANFORM EFFECT ON STATIC LONGITUDINAL AERODYNAMIC CHARACTERISTICS OF FLAT TOP HYPERSONIC AIRCRAFT AT TRANSONIC SPEEDS

		Control of the Control			
VEHICLE DURING REENTRY ATL-D-861	N63-11421	03-15	ARROWHEAD WING NASA-TH-X-193	N63-12984	07-02
INTEGRAL EQUATION RELATING GENE LIFT & DOWNWASH DISTRIBUTIONS O			FLEXIBLE WING CARGO GLIDERS TCREC-TR-62-3A	N63-12995	07-04
NASA-TN-D-1521	N63-11614	04-03	FLEXIBLE WING CARGO GLIDERS - DE AERODYNAMICS, PERFORMANCE, STRUC	SIGN CRITERI	A
AERODYNAMIC CHARACTERISTICS OF SHAPED PLATES AND OSCILLATING R			TCREC-TR-62-3B	N63-12996	07-04
SUPERSONIC FLOW NLL-TR-S.527	N63-11832	04-03	AERODYNAMIC CHARACTERISTICS OF A LOADING FANS HOUNTED IN WINGS		CALC
DEVELOPMENT OF FLOW SEPARATIONS	RELATED TO		NASA-TN-D-1650	N63-13100	07-03
INCIDENCE OF WINGS WITH SHARP L THREE-DIMENSIONAL BOUNDARY LAYE	EADING EDGES R ANALYSIS		BENDING MOMENT DISTRIBUTION OF O CAMBERED-SPAN WINGS		
AGARD-275	N63-11838	04-03	NASA-TH-D-1505	N63-13181	07-03
FLOW ABOUT HALF-WING OF CROPPED ARC-REM-3286	N63-11901	04-03	OSCILLATING WEDGE SHAPED AIRFOIL FLOW		
AERODYNAMIC FORCES ON OSCILLATI	NG TWO-DIMEN	STONAL	AASU-228	N63-13494	08-03
WING IN ACCELERATED SUPERSONIC ARC-REM-3299	FLIGHT N63-11903	04-03	OFF-DESIGN AERODYNAMIC CHARACTER ARROW WINGS WITH TWIST AND CAMBE		
INFLUENCE OF LEADING EDGE RADIU	S AND SWEEPS	ACK ON	VELOCITIES NASA-TN-D-1630	N63-13516	08-03
DEVELOPMENT OF LEADING EDGE VOR WING SURFACE DIL FLOW PATTERNS	TICES BY ANA	LYZING	MAXIMUM CROSS SECTIONAL AREA EFF		
CP-583	N63-11925	04-03	WAVE DRAG AND PRESSURE DISTRIBUT ARC-CP-606		08-03
MEASUREMENT OF PITCHING-MOMENT RIGID TAPERED WINGS OF HEXAGONA	DERIVATIVES	FOR	FLUTTER OF OSCILLATING WINGS IN	SUBSONIC FLO	
OSCILLATING IN SUPERSONIC FLOW		Distance of	ARC-REM-3302	N63-13786	09-28
ARC-REM-3294	N63-12128	05-03	SUBSONIC AND SUPERSONIC WIND TUN	NEL STUDY OF	LOW
TRANSONIC FLUTTER CHARACTERISTIC CANTILEVER WINGS WITH TAPER RAT NASA-TN-D-1594	IOS OF 0.6 N63-12480	06-03	ASPECT RATIO SWEPTBACK WING TAIL AIRCRAFT MODEL/STABILITY AND CON NACA-RM-A52J30	LESS FIGHTER TROL N63-13864	09-04
- SOR STREET, STREET, Mr. THERMOOKS			FLIGHT-DETERMINED STABILITY & CO	PERMITTED AND A	
AILERON EFFECTIVENESS & DIHEDRAL BODY COMBINATION WITH VARIABLE- HALF-DELTA CONTROLS AT WING TIP:	INCIDENCE WIF	IG &	OF SUPERSONIC AIRCRAFT WITH LOW UNSWEPT WING & T-TAIL		
NACA-RH-ASOH10	N63-12537	06-02	NASA-HEMO-2-2-59H	N63-13886	09-04
EFFECTS OF WING VERTICAL LOCATION CONTROL OF CANARD AIRCRAFT AT SINASA-TM-X-44	ON ON STABILI UPERSONIC SPE N63-12551	TY AND EEDS 06-02	WATER LANDINGS OF WINGED REENTRY HAVING OUTBOARD FOLDING WING PAN NASA-TM-X-62		
STATIC LONGITUDINAL AERODYNAMICS BODY SHAPES FOR USE AS REENTRY O HYPERSONIC SPEED AND ANGLES OF	CONFIGURATION	S AT	SUBSONIC AERODYNAMIC CHARACTERIS REENTRY VEHICLE WITH VERTICALLY CAMBERED WING-TIP PANELS		
MASA-TH-X-65	N63-12553	06-02	NASA-TH-X-440	N63-13909	09-32
PRESSURE DISTRIBUTIONS AND AEROL	YNAMIC		AEROELASTICITY - FLUTTER OF WING	PANELS, CON	TROL
CHARACTERISTICS OF SPOILER-TYPE TRAPEZOIDAL WING AT SUPERSONIC : NACA-RM-L56E22	SPEED N63-12910	07-03	SURFACES, ALL-HOVABLE TAIL SURFA EQUATIONS, STATIC DIVERGENCE, CO	NTROL REVERS	AL 09-01
AERODYNAMIC CHARACTERISTICS OF I			WING FLUTTER - AEROELASTICITY	II FIRE ME	11197
BODY COMBINATIONS AT MACH 3.0 AT	10 3.5		WING PLUTTER - MENDELASTICITY	N63-14116	09-33
NASA-MEMO-1-2-59E	N63-12913	07-02	CALCULATIONS ON LOW ASPECT RATIO		
AERODYNAMIC CHARACTERISTICS OF F	IING OF		LEADING EDGE FLAPS - WITH OR WIT DFL-191	HOUT FUSELAG N63-14442	10-03
RECTANGULAR PLANFORM AT MACH 2.0 NASA-TM-X-211	N63-12915	07-03	TESTS OF WING-TIP-HOUNTED DUCTED AIRCRAFT		STOL 10-03
NUMERICAL LIFTING-SURFACE METHOD		re	CHARACTERISTICS WHICH HAVE SIGNI		T 00
DIRECT GUST FORCES AND MOMENTS O			TRANSITION PERFORMANCE OF V/STOL	AIRCRAFT -	POWER
NASA-TN-D-1501	N63-12927	07-03	EFFICIENCY, VELOCITY PROFILE, DE	SIGN, WING P N63-14692	ROFILE 10-04
FLAT-PLATE SURFACES AT SUBSONIC			EFFECT OF GROUND PROXIMITY, WING PITCHING MOMENTS, AND POWER REQU		MENA,
NASA-TM-X-53	N63-12952	07-33	AIRCRAFT	N63-14694	10-04
EFFECTS OF WING-CRANK, LEADING-E	DGE CHORD		STABILITY DERIVATIVES FOR TAPERE	D WINGS OF	TONING
EXTENSIONS & HORIZONTAL-TAIL HEI LONGITUDINAL STABILITY OF SMEPT- NASA-TM-X-92	WING MODELS N63-12980	07-02	HEXAGONAL PLANFORM OSCILLATING I STREAM ARC-REM-3298	N SUPERSONIC	12-03
		01-02	CHILDRY TOURNET TO STRAKE CHECK	- CORCITION MONTH	100
AERODYNAMIC CHARACTERISTICS OF A CONFIGURATION WITH CAMBERED AND AT SUPERSONIC SPEED	TWISTED ARRO	W WING	OSCILLATORY AERODYNAMIC DERIVATI CONTROL SURFACE - PITCH TRANSLAT ARC-R6M-3307	ION AND ROTA	
NASA-TH-X-115	N63-12981	07-02	MASS CONTRACTOR OF THE PARTY OF	W-3-14771	DONEWS

SUBSONIC FLIGHT CHARACTERISTICS OF FLAT-TOP HYPERSONIC-BOOST GLIDE AIRPLANE MODEL WITH

07-03

2MC172F017MA3-15050 CH11-04

WING AND FLAP LOADS OF V/STOL AIRCRAFT - WIN

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3

NACA-RH-A58F02 06-02 NASA-TH-X-364 NA3-16138 13-04 FAVORABLE WING-BODY INTERFERENCE FOR SUPERSONIC ATRCRAFT - DESIGN PARAMETERS N63-14024 09 LOAD DISTRIBUTION ON CONTROLS AND WING SURFACES N63-16239 NACA-RH-L 57D26A CALCULATIONS ON LOW ASPECT RATIO WINGS WITH LEADING EDGE FLAPS - WITH OR WITHOUT FUSELAGE N63-14442 10-03 SKIN TAPER AND AEROELASTIC PROPERTIES OF WINGS N63-16415 14-03 AERODYNAMIC AND HYDRODYNAMIC CHARACTERISTICS OF PROPOSED SUPERSONIC MULTIJET SEAPLANE WITH VARIABLE INCIDENCE WING AERODYNAMIC CHARACTERISTICS IN PITCH OF SEVERAL WING-BODY COMBINATIONS WITH WEDGE-SHAPED PLANFORM LOCATED ABOVE AND BELOW A SWEPT DELTA WING NASA-TH-D-1823 N63-17302 15-0: NASA-TH-X-249 N63-17254 15-02 AERODYNAMIC CHARACTERISTICS OF VARIABLE-WING-SWEEP CONFIGURATION WITH SPOILER-SLOT-DEFLECTOR CONTROL SYSTEM & SWEPT BACK OUTER WING PANELS TRANSONIC WIND TUNNEL TESTS FOR AERODYNAMIC CHARACTERISTICS OF WING-BODY CONFIGURATIONS NASA-TN D-1947 N63-17450 15-03 MASA-TH-X-273 WIND TUNNEL INVESTIGATION OF STATIC AND DYNAMIC-ROTARY STABILITY DERIVATIVES OF FLAT-TOP WING BODY NASA-TH-X-361 N63-17989 16-02 ZERO-LIFT DRAG AT SUPERSONIC SPEEDS FOR SYMMETRICAL SLENDER WING WITH ROUGHNESS BANDS ARA WIND TUNNEL NOTE-48 N63-17578 16-03 BOUNDARY LAYER TRANSITION ON WING BODY AT SUPERSONIC FLOW NACA-RH-H58E28 N63-1804 MODIFIED-STRIP-ANALYSIS FLUTTER CALCULATIONS FOR FINITE SPAN WINGS AT SUPERSONIC SPEEDS N63-18234 17-03 N63-18047 NASA-TN-D-1824 EFFECT OF FRICTION ON OPTIMUM TWO-DIMENSIONAL WINGS IN LINEARIZED SUPERSONIC FLOW FLIGHT SCIENCES LAB. TR-78 M63-20969 GROUND EFFECT WIND TUNNEL TEST OF LOW ASPECT RATIO AIRFOIL DTM8-AERO-1056 N63-19883 19-03 WIND TUNNEL TESTS OF WINGLESS LOW ASPECT RATIO FOLDING CONTROL MISSILE CONFIGURATIONS NACA-RM-A58F30 N63-2 EFFECTS ON AERODYNAMIC STABILITY OF HODIFYING WING INBOARD TRAILING-EDGE CAMBER OF MODEL AT HIGH SUBSONIC SPEED N63-20532 AERODYNAMIC CHARACTERISTICS OF LOW-ASPECT-RATIO MASA-TN-D-1809 WINGS AT SUPERSONIC SPEEDS NACA-RH-L53123 N63-20533 20-03 WING FLAP JET FLAPS - BLOWOUT FROM SLOT NEAR THE TRAILING EDGE, CIRCULAR CYLINDER, RECTANGULAR WING N63-14437 10-03 WING-AILERON FLUTTER USING GROUND-LAUNCHED ROCKET HODEL ARC-CP-627 N63-21837 22-33 MING-FUSELAGE COMBINATION
STABILITY AND CONTROL OF FLAT SURFACE WINGFUSELAGE COMBINATION AT SUBSONIC SPEED - EFFECT OF
WING LEADING EDGE SMEEPBACK
NASA-MEMO-3-5-59A N69-14755 11-02 ENERGENCY CONTROL OF BOUNDARY LAYER ON AIRCRAFT WINGS BY PROPELLANT ENERGY N63-22082 22-26 BASE FLOW ON BLUNT TRAILING-EDGE WINGS AT SUBSONIC AND SUPERSONIC SPEEDS ARC-REM-3323 N63-22214 23-02 WING-FUSELAGE-STORE

EFFECT OF LARGE STORE /NACELLE/ ON A SWEPT-WING

HEAVY BONDER - LATERAL FORCE AND PITCHING HOMENTS

N63-13668 09-02 CALCULATION METHOD FOR SOLVING AEROELASTIC PROBLEMS FOR STUB WINGS AND ENTIRE AIRCRAFT N63-22265 23-03 EFFECT OF STORES ON A SWEPT-WING MEAVY BOMBER SECOND-ORDER THEORY OF OPTIMUM TWO-DIMENSIONAL WINGS IN SUPERSONIC FLOW INCLUDING FRICTION ORIGIN & DISTRIBUTION OF SUPERSONIC STORE INTERFERENCE/MEASUREMENT OF INDIVIDUAL FORCES — SWEPT-WING HEAVY BOMBER WITH LARGE STORE FIGURE NACA-RH-L55KIS WODER WITH LARGE STORE FIGURE FLIGHT SCIENCES LAB. TR-79 N63-22325 23-03 INFLATABLE FLEXIBLE WING INDIVIDUAL DROP GLIDER DRIGIN AND DISTRIBUTION OF SUPERSONIC STORE INTERFERENCE/MEASUREMENT OF INDIVIDUAL FORCES ON DELTA-WING HEAVY BOMBER CONFIGURATION MACH 1.61
NACA-RM-L55127A M63-13871 09-02 TRECOM-TR-63-26 MA3-22684 WING-TAIL INTERFERENCE AT SUPERSONIC SPEEDS - 53cHA 'TEN N63-23102 24-02 MING LOADING DOUBLE CARRIER CURVE METHOD FOR STUDY OF WINGS GALERKIN METHOD APPLICATION TO AIRCRAFT WING DESIGN FOR MINIMUM FLUTTER FTO-TT-63-739/162 N63-23188 MEAR THE GROUND PLAND A MARKET FLEXIBLE WINGS RED - STABILITY & CONTACL OF PARA-GLIDERS AS DECELERATORS FOR SPACECRAFT RECOVERY N63-23319 24-03 TIME-DEPENDENT AERODYNAMIC FORCES WITH APPLICATION
TO A WING DEFORMING MARMONICALLY ACCORDING TO A
GENERAL POLYNOMIAL EQUATION
NASA-TH-D-1475
NASA-TH-D-1475
NAS-10950
02-03 WING ASPECT RATIO VARIATION
PITCH-UP EVALUATION AT HIGH SUBSONIC SPEEDS -POSSIBLE LIMITATIONS DUE TO MING-ASPECT-RATIO EFFECTS OF DEFLECTED INDOARD ALLERONS ON WING LOADS OF AS-DEG SWEPT-BACK WING AT TRANSONIC VARIATIONS SPEEDS NACA-RM-LSBELZ MA3-12911 WIND TUNNEL TEST OF FAM-IN-FUSELAGE MODEL OF VTOL AIRCRAFT N63-14688 10-04 STRUCTURAL LOAD SURVEYS ON TILT-WING VTOL AIRCRAFT AIRFRAME VIBRATORY LOADS OF VZ-II VTOL AND WING LOADS OF RESEARCH MODEL IN WIND TURNEL IESTS MSD-14706 10-33 WING-BODY INTERFERENCE AT HYPERSONIC SPEEDS -THEORY AND WIND TUNNEL TESTS 1411 064 N63-12001 05-02

APPROXIMATE SOLUTION FOR FLOW ABOUT FLAT-TOP WING BODY CONFIGURATION AT SUPERSONIC SPEEDS

NASA-TN-0-1634

AND CURRENT PREDICTIONS	N63-19203	18-09	AFCRL-1114 2014 2014 2014 2014 2014 2014 2014	03-0
EXPLODING VIRE PHENOMENON - MAXI	SAUR ONS IN	134	WORK FUNCTIONS AND LIFETIME OF DISPENSER CATH	
SPHERICAL POWDER AND WIRE BUNDLE SOURCES FOR IONIZATION OF CESSUM	TUNGSTEN II VAPOR N63-17707	16-18	AFCRL-62-949/SUPPL./ H63-17083	15-1
NETWORK SYNTHESIS WITH MULTIWIRE	LINES		PHOTOELECTRIC MORK FUNCTION AND DXYGEN ADSORP PROPERTIES OF NIOBIUM SINGLE CRYSTALS	Marill
NEW TYPE STRETCH ANTENNA ARRAY - PROXIMITY-COUPLED TO OPEN TWO-WIL AFCRL-62-727	RE LIME N63-13989	1014	REVIEW OF INSTRUMENTS FOR RECORDING PHYSIOLOG RESPONSES IN MAN WHILE PERFORMING PHYSICAL WO	IAL
ELECTRICAL DIPOLE MOMENT AND FAR TRAILING ANTENNA WIRE EE-74	N63-12638		NATURAL BACKGROUND RADIOACTIVITY AND RECORDIN PHYSICAL MORK JPRS-17249 N63-12065	NG
WIRE I THE WILL STRONG STRANGONIA			SYSTEM UNDER WORK CONDITIONS N63-11595	04-1
WIND TUNNEL TESTS OF WINGLESS LO FOLDING CONTROL MISSILE CONFIGUR NACA-RM-AS8F30				04-1
DTMB-AERO-1055	N63-19882	19-03	EFFICIENCY OF AN OPERATORS WORK IN AUTOMATIC	CA.
SUPERSONIC WIND TUNNEL STABILITY MISSILE WITH SIDE JET WINGS	TESTS OF W	INGLESS	ORBITAL WORKERS AMRL-TDR-62-103 N63-10130	10-0
NASA-TN-0-1335	N63-12489	06-02	WORK WEIGHTLESS MAN - SINGLE IMPULSE TRAJECTORIES	
WINGLESS VEHICLE WIND TUNNEL INVESTIGATION OF WIN TAKEOFF AND LANDING AIRCRAFT		CAL	HIGH NOISE CONDITIONS - BROWN AND RUBENSTEIN RESPONSE BIAS MODEL N63-14808	11-2
	ER N63-18155	16-31	N63-18515 WORD FREQUENCY WORD FREQUENCY EFFECT - WORD IDENTIFICATION U	17-0
MATER LANDINGS OF WINGED REENTRY HAVING OUTBOARD FOLDING WING PAN NASA-TM-X-62			EFFECTS OF GAMMA RADIATION ON WOOD ORD-600 N63-14860 THERMAL DECOMPOSITION OF WOOD IN INERT ATMOSP	
WINGED REENTRY VEHICLE HAVING LA DEFLECTED FLAP-TYPE CONTROL SURF MASA-TM-X-179	RGE NEGATIVI ACE N63-12983	07-02	WOOD PREPARATION OF WOOD-PLASTIC COMPOSITE MATERIA USING GAMMA RADIATION TO INDUCE POLYMERIZATIO	L
ASRMCM-TM-62-11 STATIC LONGITUDINAL STABILITY CH	N63-12683 ARACTERISTI		RELIABILITY EVALUATION AND ENVIRONMENTAL TEST OF PRINTED-MIRING-BOARD SOLDERED JOINTS N63-17286	1NG 15-1
EFFECT OF VARIATIONS OF BENDING CLOSED-LOOP FEEDBACK CONTROL STA ELASTIC, WINGED BOOSTER	BILITY OF		R63-44 N63-23704 WIRING	
ATROSPHERE	N63-10300	01-22	TRANSMISSION COEFFICIENTS OF WIRE MESH WAVE E DISSIPATORS	0.00
DYNAMIC ERROR OF AUTOMATIC LONGI STABILIZATION OF A WINGED-AIRCRA		TURBED	FOR CONCRETE TEAM-238 N63-16540	14-1
CAMBERED WING-TIP PANELS NASA-TM-X-440	N63-13909	09-32	PLAIN AND DEFORMED MIRE FABRIC AS REINFORCEME	
SUBSONIC AERODYNAMIC CHARACTERIS REENTRY VEHICLE WITH VERTICALLY			WIRE-GRID LENS - DIELECTRIC CONSTANT OF WIRE- GRIDS	
DRAG FOR TAKEOFF AND LANDING DTMB-AERO-1043	N63-12720	06-03	NOLTR-61-171 N63-12114	05-2
NASA-TM-X-47 WIND TUNNEL STUDY OF WING-TIP BL	N63-12552 OWING TO RE		WIRE BRIDGE CIRCUIT ENERGY REQUIREMENTS FOR DETONATION OF WIRE AN CARBON BRIDGE WEAPON PRIMERS	
STATIC STABILITY AND CONTROL CHA AIRCRAFT MODEL WITH TAIL SURFACE WING TIPS	S OUTBOARD	OF	any sente light to the state of	IRE 24-0
ATLERON EFFECTIVENESS & DIHEDRAL BODY COMBINATION WITH VARIABLE-I HALF-DELTA CONTROLS AT WING TIPS MACA-RH-ASOHIO	NCIDENCE WI	NG &	REACTION OF FINE METAL WIRES TO IMPOSED LOADS N63-22373	
NACA-RM-L55J24	N63-12520	06-02 HING-	FLOW OF RAREFIED GAS OVER OBSTACLES OF SMALL DIMENSIONS ENVISIONED USING NETWORK OF FINE W M63-21604	
WING TIP SIMULATED FLIGHT TESTS OF ELASTI BOMBER AND FIGHTER MODEL COUPLED TIP	C SWEPT-WIN		ZONE REFINED BERYLLIUM RECRYSTALLIZED IN WIRE FROM REDUCED BERYLLIUM AND TESTED FOR TENSILE PROPERTIES N63-19985	
ANTISYMMETRICAL LOADING ARC-RGM-3312	N63-23250		MEASUREMENT - SQUID PROJECT BRN-7-P N63-19929	19-2
RAE-R-STRUCT-261 WALL CORRECTIONS FOR WINGS OSCIL RECTANGULAR WIND TUNNELS UNDER S	LATING IN		INTERNAL FRICTION OF SMALL DIAMETER QUARTZ MI FOR USE IN OSCILLATING DISK GAS VISCOSITY	
MOUNTED MASS	G FLEXIBLY		TURBULENT FLOW THROUGH ROD BUNDLE ASSEMBLIES HW-65173-REV N63-19361	10.1

A-1104

AL 18-11 RES 19-25 FORM

22-11 23-18 IRE 24-09

15-26 1ESH 6-08 TS 4-17 ERGY 4-23

-07 RE -07

-20 R -32 -14 -14

16

25

99

WORK FUNCTION CHANGES OF HI PRODUCED BY CHEMISORPTION (DIFFERENT TYPES OF ADSORPTI	TALS AND SEMICONDUCTORS IN SURFACES WITH
NASA-CR-50027	N63-16721 14-23
RK-REST CYCLE 30-DAY STUDY OF CHIMPANZEE PACED TASK FOR FOOD AND WAT ANIMAL STUDY	PERFORMANCE ON SELF- IER - WORK/REST CYCLE -
ARL-TOR-63-15	N63-18729 17-16
RKING FLUID THERMOPHYSICAL PROPERTIES C WORKING FLUIDS, COOLING SYS POWER PLANTS	F ALKALT METALS FOR
INTERACTION OF WORKING FLUI COMPONENTS ON TRANSPIRATION	N63-23473 24-24
RTIITE COLLISION CASCADES OF INJECTIVE OF BERYLLIUM OXIG	TEN ATOM IN MINTITE
-Z AIRCRAFT EC-121K AIRCRAFT	HARAY DIFINALLION FI
	THE STATE OF THE PARTY OF THE P
SAND X-BAND TELEMETERING FOR RAD REENTRY COMMUNICATION IN EA	DIO INTERFERENCE -
VEHICLE CP-63-663	N63-14953 11-08
HIGH ALTITUDE X-BAND NOISE AFCRL-63-87	
WAVEGUIDE SWITCHING CIRCUIT X-BAND AND S-BAND AFCRL-63-138	14 SLOTTED ANTENNA - N63-17487 16-09
HIGH POWER X-BAND GENERATOR TECHNIQUES	STUDY - HICROWAVE TUBE
RADC-RAL-TH-63-7	
X-BAND OSCILLATOR WITH FIEL ELECTRON GUN RADC-TOR-63-317	N63-22069 22-09
RAY	
SCANNING MECHANISM FOR A SA SPECTROMETER NASA-TN-D-1097	N63-10204 01-15
X-RAY IMAGE OF FERMI SURFACE	E IN LEAD
PLASTICS, ISOTOPE SEPARATIO	ON, RADIOELEMENTS,
MLH-1129	N63-10419 01-01
REACTOR FUELS - PLASTICS. >	-RAYS, RADIOELEMENTS
X-RAY IMAGE SYSTEM FOR MONE SOLID-PROPELLANT MISSILE CA MAL-TR-142.5/1-4	SE WALLS AND WELDMENTS M63-10713 02-17
X-RAYS PASSING BETWEEN TWO	IDENTICAL SPHERES N63-11045 03-17
ELECTRON PADRE X-RAY SPECTA	OGRAPH THE MICHOR
CORRELATION OF VARIATIONS C RATES WITH SIMULTAMEOUS VIS ALTITUDE X-RAY BURSTS	F EXPLORER VI COUNT UAL AURORAS AND HIGH- N63-11789 04-28

CHARACTERISTIC X-RAYS EXCITED BY ELECTRON BEAM IN THICK TARGETS N63-12651 06-23
BEHAVIOR OF SOLIDS UNDER PRESSURE - X-RAY AMALYSIS N63-12027 06-25
FOURIER ANALYSIS COMPUTER PROGRAM FOR X-RAY DATA RFP-297 N63-13026 07-20
ABSORPTION AND REFLECTION OF LITHIUM FLUORIDE AND SELENIUM IN EXTREME VACUUM ULTRAVIOLET AND/OR SOFT X-RAY REGIONS AROD-2588-3 N63-13053 07-23
ELECTRON PRECIPITATION IN NORTHERN AND SOUTHERN AURORAL ZONES AFOSR-420 N63-13115 07-12
DISTRIBUTION OF ABSORBED X-RAY ENERGY IN EARTH ATMOSPHERE SC-4759/RR/ N63-13577 08-28
X-RAY OPTICS & X-RAY MICROANALYSIS - THIRD INTERNATIONAL SYMPOSIUM, 1962 N63-13599 08-23
PHYSICS REPORT - BUBBLE CHAMBER, PARTICLE THEORY, PION, HEAVY ION, S-HATRIX, ATOHIC BEAMS, SCATTER, X-RAY STUDY, INTERACTIONS UCRL-10572 N63-14080 09-23
COMPARATIVE EFFECTS OF SO KVP AND 250 KVP X-RAYS ON ODGS USWRDL-TR-616
INSPECTION OF BERYLLIUM CHIPS BY MONFILM RADIATION INAGING - X-RAY FLUOROSCOPY N63-14286 10-15
MOTOR RESPONSE IN MOTHS EXPOSED TO LOW-INTENSITY X-RAYS USMRDL-TR-622 M63-14570 10-16
DENTAL LESIONS IN RATS DUE TO X-RAYS & NEUTRONS - RADIATION EFFECT ON TEETH USHRDL-TR-620 N63-14824 11-16
QUANTITATIVE AMALYSIS OF SILICON AND COBALT IN STAINLESS STEELS BY X-RAY SPECTROGRAPHY EUR-203.F NO3-15403 12-18
X-RAY IMAGE SYSTEM FOR MONDESTRUCTIVE TESTING OF SOLID PROPELLANT MISSILE CASE WALLS AND WELDHENTS WAL-TR-142.5/1-3 M63-15955 13-17
CORRECTIONS FOR VARIABLE ABSORPTION OF SOFT X-RAYS BY MYLAR - EMPIRICAL METHOD - FLUGRESCENCE AMALYSIS
RK-TR-63-7 N63-16168 13-23 IMPORTANCE OF X-RAY CONTROL IN ROUTINE MEDICAL EXAMINATIONS OF FLIGHT PERSONNEL N63-16211 13-16
X-RAY EXAMINATION OF PARAMASAL MEMBRANES FOR SELECTION AND HEALTH CONTROL OF FLIGHT PERSONNEL N63-16232 13-16
POWDER POROSITY EFFECT ON X-RAY ENTENSITY MEASUREMENTS MRL-114/R/ H63-16256 13-23
PRELIMINARY SQLAR FLARE OBSERVATIONS WITH SOFT X-RAY SPECTROMETER ON ORBITING SQLAR OBSERVATORY SATELLITE MASA-TH-X-50023 MGD-16706 14-20
ENERGY DEPENDENCE CALIBRATIONS IN 60 REV TO 180 KEV RANGE OF VICTOREEM IONIZATION CHAMBER USING X-RAY MACHINE OF VARYING DUTCHT MSS-18850 14-23
X-RAY MASS ABSORPTION COEFFICIENTS BH-IC-8166 N63-10978 14-23
RADIATION PROTECTION - RADIATION EFFECT ON THIOPHOSPHATE OXIDIZING ENZYME SYSTEM IN RATS N63-17037 15-16

X-RAY FLUDRESCENCE ANALYSIS TECHNIQUES FOR SMALL SAMPLES - PROTOTYPE ATMOSPHERIC ELECTRON PROBE AFCRL-62-933 M63-11803 04-15

STUDY OF METALLIC CRYSTAL DEFECTS BY DETERMINING ELECTRON DENSITY USING X-RAY BEAM SCATTER METHOD M63-12229 05-18

A-1105

65-	NEW SPECIMEN HOLDER FOR GUINIER X-RAY CAMERA EUR-251.F	X-RAY DIFFRACTION CRYSTAL STRUCTURE OF VALERIC ACID - HYDROGEN BONDING OF FATTY ACIDS DETERMINED BY X-RAY
211	RADIATION EFFECTS ON INSULATORS - POSITRON ANNIHILATION IN SOLIDS - IONIZATION OF ANTHRACENE CRYSTALS BY X-RAYS MEASURED BY POLARIZATION METHOD N63-17654 16-17	DIFFRACTION N63-12350 05-07 CRYSTALLOGRAPHY - HIGH PURITY SINGLE-CRYSTAL BORN PREPARATION BY CHEMICAL VAPOR PLATING AND X-RAY
	DETERMINATION OF TRACE ELEMENTS IN MINERALS AND	DIFFRACTION INSPECTION ASD-TDR-62-427 N63-13755 08-01
	ORES BY FLUORESCENT X-RAY SPECTROGRAPHY BH-RI-5966 N63-17888 16-18	CRYSTAL STRUCTURE OF PROPIONIC ACID BY X-RAY DIFFRACTION N63-15354 12-01
	GEOMAGNETIC FIELD - ROCKET MEASUREMENTS IN AURORAL ZONE - X-RAY BURSTS AND ELECTRON FLUX	CRYSTALS OF HIGH PURITY ALUMINUM FOR X-RAY
	MASA-CR-50116 3HT FC4 HE MOTTATE N63-18050 116-12	DIFFRACTION ANALYSIS WAL-TR-129.1/1 N63-15456 12-11
51-	SCINTILLATION SPECTROMETER MEASUREMENT OF SPECTRA AND SPATIAL ENERGY DISTRIBUTION OF PULSED X-RAYS GENERATED BY HIGH POWERED ELECTRONIC EQUIPMENT RADC-TDR-63-29 16-15	ALLOYS OF RARE EARTH METALS - VAPOR PRESSURE, THERMODYNAMICS, METALLURGY, AND X-RAY DIFFRACTION OF PRASEODYMIUM, NEODYMIUM, AND SAMARIUM ARL-63-15 N63-15549 12-14
	PRESSURE EXERTED BY SHOCK HAVES IN SOLID MEDIA - OPTICAL, ELECTRICAL AND X-RAY TECHNIQUES USED TO MEASURE SHOCK AND FREE SURFACE VELOCITIES POULTER LABS. TR-002-63 N63-19134 18-25	X-RAY DIFFRACTION STUDY OF DEFORMATION BY FILING IN BODY-CENTERED CUBIC REFRACTORY METALS M63-15749 12-14
17	X-RAY BACK-REFLECTION DIVERGENT BEAM STRAIN AMALYSES OF TANTALUM AND TUNGSTEN SINGLE CRYSTALS	X-RAY DIFFRACTION FURNACE FOR QUANTITATIVE X-RAY INTENSITY MEASUREMENTS
ES:	N63-19659 19-18	C-14 N63-16874 14-15 STRUCTURE ANALYSIS OF LIQUID BY X-RAY DIFFRACTION
	INTERPRETATION OF X-RAY PHOTOGRAPHS OF SUN N63-19702 19-05	AND REFRACTIVE INDEX STUDIES MS-10039-M N63-16982 14-23
110	X-RAY ABSORPTION SPECTRUM FOR NUCLEAR CHEMICAL ANALYSIS EUR-270-E N63-20519 20-07	DETERMINATION OF STATE OF BIAXIAL ORIENTATION IN CRYSTALLITES OF POLYCRYSTALLINE POLYMER BY X-RAY
	FLASH X-RAY DOSINETRY - RADIATION MEASUREMENT	DIFFRACTION N63-17605 16-25
	N63-20815 21-23 BALL BEARING WEAR & LUBRICATION TEST MACHINE USING	DISLOCATION STUDIES IN DIAMOND X-RAY DIFFRACTION
	X-RAY & RADIOACTIVE TRACER TECHNIQUES AL63T011 N63-21113 21-17	AFCRL-63-65 N63-17608 16-25
	AURORAL ZONE X-RAY EVENTS N63-21538 22-12	EFFECT OF MECHANICAL AND HEAT TREATMENT ON X-RAY DIFFRACTION PATTERNS OF POLYBUTENE-1
97-	AURORAL ZONE X-RAY EVENT - PERIODICITY IN X-RAY INTENSITY ATTRIBUTED TO VARIATIONS IN FLUX OF ELECTRONS INCIDENT ON ATMOSPHERE N63-21539 22-12	ONR-TR-52 ELECTRON MICROSCOPY, X-RAY DIFFRACTION AND MECHANICAL TESTING TO DETERMINE SUBSTRUCTURE AND MECHANICAL PROPERTIES OF REFRACTORY METALS
	AURORAL ZONE X-RAY EVENTS - FLUXES OF AURORAL ZONE X-RAYS DURING MAGNETIC RAY ACTIVITY OBSERVED DURING HIGH ALTITUDE BALLOON FLIGHTS	ASD-TR-61-181, PT. III N63-19656 19-18 ELECTRONIC STRUCTURE OF CRYSTALLINE MATERIALS - X-RAY DIFFRACTION MEASUREMENTS
sy,	N63-21540 22-12	AROD-1176-20 N63-19805 19-25
231	AURORAL ZONE X-RAY EVENTS - GEOMAGNETIC VARIATION WITH ELECTRON BOMBARDMENT OF ATMOSPHERE N63-21541 22-12	PROTON IRRADIATION EFFECT ON SILICON PROPERTIES AND DAMAGE DETECTION BY X-RAY DIFFRACTION AFCRL-63-312 N63-19975 19-25
NT-	GROUND STATE CALCULATIONS EXTENDED TO X-RAY SCATTERING FACTOR AND TRIPLET STATE OF HELIUM BY SCHWARTZ METHOD	NORMAL-BEAM AUTOMATIC X-RAY DIFFRACTOMETER FOR CRYSTAL STRUCTURE DATA COLLECTION AROD-3975-1 N63-20145 20-15
	AMRA-TR-63-01 N63-21783 22-23	SOLID STATE PHYSICS - RADIATION DAMAGE, ELECTRON
65	BIBLIOGRAPHY OF SMALL ANGLE X-RAY SCATTERING LMSC-6-90-62-35 N63-21806 22-23	MICROSCOPY, IONIC CRYSTALS, X-RAY DIFFRACTION, SPIN RESONANCE, AND RADIATION METALLURGY ORNL-3480 20-23 N63-20230 20-23
	DETERMINATION OF COBALT AND NICKEL IN TUNGSTEN BY COMBINED ION EXCHANGE X-RAY SPECTROGRAPHIC METHOD BM-RI-6308 N63-22235 23-18	CRYSTALLOGRAPHIC DATA FOR ALPHA PLUTONIUM INCLUDING X-RAY DIFFRACTION PATTERNS ANL-6676 N63-21042 21-18
15-	X-RAY LINE WIDTH CORRECTION TABLES AND PEAK MEIGHT FOR ALPHA-1 ALPHA-2 DOUBLING EFFECT AERE-R-4218 N63-22851 23-23	POWDER X-RAY DIFFRACTION INTENSITY - EFFECT OF GRANULARITY ON ABSORPTION COEFFICIENT AMRA-TR-63-02 N63-21795 22-19
	X-RAY DENSITOMETER FOR USE IN PLASMA STREAMS ATAA PAPER 63-387 N63-23400 24-24	X-RAY FLUORESCENCE SPECTROSCOPY CHEMICAL ANALYSIS - NUCLEAR FUELS - NUCLEAR
(5-	SUM-EARTH RELATIONSHIPS - SOLAR ULTRAVIOLET AND X-RADIATION EFFECTS ON EARTH ATMOSPHERE AND IONOSPHERE N63-23440 24-29	REACTOR - X-RAY FLUORESCENCE - SPECTROPHOTOMETRY NBL-188 N63-12435 06-07
X-	RAY ANALYSIS ELECTRON PROBE X-RAY MICROANALYSIS OF ORGANIZED	DETERMINATION OF IMPURITIES IN BERYLLIUM BY X-RAY FLUORESCENCE SPECTROSCOPY N63-12444 06-07

DETERMINATION OF ENRICHED URANIUM IN URANIUM OXIDE-STAINLESS STEEL SOLUTIONS BY X-RAY FLUORESCENCE N63-12445

X-RAY ANALYSIS
ELECTRON PROBE X-RAY MICROANALYSIS OF ORGANIZED
ELEMENTS IN THE ORGUEIL CARBONACEOUS METEORITE
N63-20933 21-05

X-RAY SENSOR
PLASTICS RESEARCH, ISOTOPES, RANGER X-RAY SENSOR,

05-07

BORD

08-07

12-07

12-18

TION

12-11 ING

12-18 RAY

14-15 TION

14-23

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16-25

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9-18

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2-19

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-07

S

Superi Lines	
CORRECTIONS FOR VARIABLE ABSORPTION OF SOFT X-RAYS BY NYLAR - EMPIRICAL METHOD - FLUORESCENCE AMALYSIS	RADIOACTIVE ELEMENTS AND REACTOR FUELS NLM-1136 MAY 144 MAY 14
RK-TR-63-7 N63-16168 13-23	ELECTRON PROBE X-RAY SPECTROGRAPH
X-RAY IRRADIATION ACTIVATION MECHANISM OF CADMIUM SULFIDE SINGLE CAYSTALS IN THE PRESENCE OF LOCAL X-IRRADIATION FTD-TT-62-885/15264 N63-10348 01-25	MINOCHLESS TUBES FOR X-RAY SPECTROSCOPY
FTO-TT-62-885/16264 N63-10348 01-25 LUMINESCENT-MICROSCOPIC EVALUATION OF BLOOD & BONE MARROW DURING X-RAY IRRADIATION	X-RAY FLUORESCENT EMISSION OF LIGHT ELEMENTS FOR SPECTROSCOPY N63-12988 07-23
M63-12396 06-16 MICROWAVE INTERACTIONS AT CRYSTAL DEFECT CENTERS -	WINDOWLESS TUBES FOR X-RAY SPECTROSCOPY N63-19475 19-15
ELECTRON SPIN RESONANCE, LASER, SOLID STATE PHYSICS, INTERMETALLICS, DETECTORS N63-13121 07-23	X-Y PLOTTER EARTH CURRENT RESEARCH IN AURORAL ZONE - RECORDING INSTRUMENTS, X-Y PLOTTER, CYCLE COUNTING,
X-RAY PRODUCED VAHADIUM IONS FROM VAHADYL IONS IN SINGLE CRYSTALS OF ZINC AMMONIUM SULFATE No.3-13123 07-23	LITERATURE UAG-R133 N63-14173 09-12
CHROMOSOME ABERRATION IN X-RAY IRRADIATED MICE - HIGH AND LOW DOSE RATE USNRDL-TR-644 N63-17613 16-16	X-1 AIRCRAFT DEVELOPMENT AND FLIGHT PERFORMANCE OF THE X-1 SERIES, DOUGLAS D-558-11, AND X-15 RESEARCH AIRCRAFT N63-11761 04-04
USE OF ULTRAMICROSCOPE WITH DARK FIELD FOR STUDYING THE EFFECTS OF X-RAY IRRADIATION OF BLOOD	X-LE AIRCRAFT WIND TUNNEL TESTS OF STATIC STABILITY OF MODEL X-LE AIRCRAFT AT MACH 2 TO 4
EFFECT OF X-RAY IRRADIATION ON HEMATIC CELLS N63-18959 18-16	MASA-TM-X-5
POSTNATAL NERVOUS SYSTEM STUDIES OF DOGS GIVEN X-RAY IRRADIATION DURING EMBRYOGENESIS	DEFLECTED-JET VYOL AIRCRAFT CHARACTERISTICS - BELL X-14 AIRCRAFT N63-14695 10-04
JPRS-20731 N63-20392 20-16 X-RAY IRRADIATION EFFECT ON GLYCOGEN CONTENT OF RAT BRAIN N63-20618 20-16	THE X-15 FLIGHT CONTROL AND STABILITY SYSTEM MASA-TH-D-1402 M63-11123 03-04
PATHOLOGICAL EFFECTS OF COMBINED X-RAY RABIATION & ELECTROMAGNETIC FIELD UNDER INDUSTRIAL CONDITIONS	THE X-15 AIRCRAFT PLIGHT PROGRAM N63-11158 03-04
JPRS-20872 N63-20696 21-16 EFFECT OF X-RAY IRRADIATION ON ANIMALS	DEVELOPMENT AND FLIGHT PERFORMANCE OF THE X-1 SERIES, DOUGLAS D-550-11, AND X-15 RESEARCH AIRCRAFT M63-11761 04-04
JPRS-21171 N63-22366 23-16 HISTOCHEMICAL STUDY OF LIPASE, ALKALI & ACID PHOSPHATASE ACTIVITY IN DIGESTIVE TRACTS OF RATS ON DIFFERENT DIETS EXPOSED TO SUBLETHAL X-RAY DOSE	NASA AERONAUTICAL RESEARCH PROGRAM — HELICOPTERS, SUPERSONIC TRANSPORT, STOL VEHICLES, MULTIRISSTON AIRCRAFT & X-15 — CONGRESSIONAL HEARINGS MG3-12138 05-01
N63-22367 23-16 EFFECT OF X-RAY IRRADIATION ON RIBOFLAVIN METABOLISM IN RABBITS N63-22368 23-16	CARRY LOADS, AERODYNAMIC INTERFERENCE EFFECTS AND DROP CHARACTERISTICS OF X-15 THROUGH 8-52 PLOW FIELD
WHOLE BODY X-IRRADIATION EFFECT ON NON-PROTEIN AMINO ACIDS AND RELATED COMPOUNDS OF RAT BRAINS AS DETERMINED BY ION EXCHANGE CHROMATOGRAPHY NAOC-MA-0315 N63-22428 23-16	NASA-MENO-6-8-39L MA3-12502 D6-04 SPIN AND RECOVERY CHARACTERISTICS OF NORTH AMERICAN X-15 AIRCRAFT NASA-TM-X-294 N63-12538 D6-04
POST MORTEM DISCOVERY OF RADIOISOTOPE CONTAMINATION IN MAN AFTER X-RAY & BETATRON	BASIC PRESSURE MEASUREMENTS ON 0.0667-SCALE MODEL OF NORTH AMERICAN X-15 RESEARCH AIRCRAFT AT TRANSONIC SPEEDS
THERAPY JPRS-20988 N63-22432 23-16	MASA-TH-X-344 NA JASSITAN NE (1917) N63-12540 06-04
POPULATION DENSITY EFFECT ON SURVIVAL TIME AND/OR RATES IN MALE RATS FOLLOWING WHOLE BODY X-RAY	LANDING GEAR BEHAVIOR DURING TOUCHDOWN OF 2-13
UR-631 23-16	DIT MASA-TH-X-510 M. 220 MM 451-01818 M63-12543 06-04
HOMOGRAFT TOLERANCE IN SUBLETHALLY X-FRRADIATED ADULT NICE	MEASUREMENTS OF LOADS, ACCELERATIONS, AND DISPLACEMENTS OF X-15 AIRCRAFT AND LANDING GEAR DURING LANDING IMPACT MASA-TH-X-639 N63-12564 D6-04
CARBOHYDRATE METABOLISM IN MONKEYS WITH ACUTE RADIATION SICKWESS AFTER X-RAY TRRADIATION	PRESSURE DISTRIBUTION ON X-15 AIRCRAFT NODEL NASA-TN-X-275 N63-12646 D6-04
PREVENTION OF RADIATION FATALITY BY ADMINISTRATION OF SELENIUM SALTS AFTER X-RAY IRRADIATION FTD-TT-62-1227/16364 N63-23726 24-23	STATIC PRESSURE & STAGNATION PRESSURE CALIBRATION DATA FOR DEFINING POSITION ERRORS OF AIRSPEED-ALTITUDE SYSTEMS OF X-15 AIRCRAFT MASA-TN-0-1724 NASA-TN-0-1724
X-RAY PHOTOGRAPHY NEW SPECIMEN HOLDER FOR GUINIER X-RAY CAMERA EUR-251.F NA3-17559 16-17	AERODYNAMIC CHARACTERISTICS OF A 0.0667-SCALE MODEL OF THE X-15 AIRCRAFT MASA-TH-X-24 M63-12978 07-02
X-84V SENSON - 63H . SO1-042	enter suctus action, 2-1% Arachart, 19650 Allo

W	110 110 11 11 11 11 11 11 11 11 11 11 11
10-04	USNROL-TR-617 N63-14950 11-9
X-15 AIRCRAFT SKIN AND STRUCTURAL TEMPERATURE DURING MACH 3.3 FLIGHT NASA-TH-X-468 N63-13912 09-04	SPECTRAL OUTPUT FROM XENON FLASH LAMPS NASA-CR-50175 N63-17140 15-01
NASA-TM-X-468 N63-13912 09-04 STABILITY & CONTROL OF X-15 AIRCRAFT SCALE MODEL AT TRANSONIC SPEEDS NASA-TM-X-758 N63-14247 10-04	XENON TETRAFLUORIDE OXYGEN FLUORIDE REACTIONS - DIOXYGEN DIFLUORIDE SUBSTITUTION & ADDITION PRODUCTS, ELECTRIC SPARK PREPARATION OF XENON AND KRYPTON TETRAFLUORIDES N63-15160 11-01
X-15 AIRCRAFT WITH INTERIM ENGINES DURING HIGH ALTITUDE FLYING NASA-TM-X-514 N63-14767 11-04	XENON 133 POSTIRRADIATION FISSION GAS RELEASE OF XENON 133
SURVEY OF AEROTHERMOELASTICITY - REENTRY VEHICLES, X-15 AIRCRAFT, STRUCTURAL DYNAMICS, THERMAL STRESS, VIBRATION AND PANEL FLUTTER	FROM PYROLYTIC CARBON BMI-1634 N63-18817 18-23 XENON-133 EVOLUTION FROM SLIGHTLY IRRADIATED
JA10MIC 24 - FRANCE ADMIGN ME MEMORITE N63-14895 11-02	ZIRCONIA-URANIA PLATES WAPD-TH-313 N63-22673 23-23
STATUS OF X-15 AERODYNAMIC-HEATING STUDIES - FLIGHT TEST AT MACH 3.1 FOR OBTAINING DATA ON HEAT TRANSFER AND BOUNDARY LAYER TRANSITION N63-15312 12-04	XM-ST ROCKET ENGINE
TRICYCLE SKID-TYPE LANDING GEAR SYSTEM - EQUATIONS OF MOTION FOR X-15 VEHICLE SLIDEOUT DYNAMICS NASA-TN-D-1828 13-30	XV-3 AIRCRAFT EFFECT OF BLADE FLAPPING ON DYNAMIC STABILITY OF TILTING-ROTOR CONVERTIPLANE - BELL XV-3 AIRCRAFT N63-14696 10-04
SPACE EXPLORATION BY SATELLITES - MANNED SPACE FLIGHT AND X-15 AIRCRAFT N63-17392 15-32	XV-5A AIRCRAFT - PROPULSION SYSTEM AND STRUCTURAL ENGINEERING N63-18138 16-33
LIFTING REENTRY OF HYPERSONIC AIRCRAFT - x-15 AIRCRAFT NASA-TM-x-334 N63-17993 16-04	DYNAMIC LOADS OF XY5A LIFT FAN FLIGHT AIRCRAFT WING STRUCTURE AND ROTOR AERODYNAMICS
ADAPTIVE CONTROLS FOR FLIGHT CONTROL OF REENTRY VEHICLES SUCH AS X-15 AIRCRAFT AGARD-406 N63-19036 18-20	N63-20360 20-04 XV-5A LIFT FAN FLIGHT RESEARCH AIRCRAFT N63-23153 24-04
EFFECT OF X-15 MANUAL FLIGHT CONTROL AND STABILITY SYSTEMS ON HORIZONTAL YAIL LOAD NASA-TN-D-2090 N63-22117 22-04	X248 ROCKET ENGINE SOLIO PROPELLANT X248 ROCKET ENGINE - HANDLING AND OPERATING INSTRUCTIONS
HYPERSONIC WIND TUNNEL TEST OF MODEL X-15 AIRCRAFT NASA-CR-50971 N63-22171 23-04	ABL/M-195/REV-/ N63-14007 09-27 X259 ROCKET ENGINE MECHANICAL IMPEDANCE STUDY OF THE X-259 ROCKET
X-15 AIRCRAFT PROGRAM N63-23237 24-04	ENGINE NASA-TN-D-1681 N63-17549 16-27
X-20 AIRCRAFT SA DYNA SOAR SPACE GLIDER OBJECTIVES OF X-20 PROGRAM - AEROSPACE MEDICINE N63-20558 20-32	X259 ROCKET ENGINE - HANDLING, INSTALLATION, AND OPERATING INSTRUCTIONS ABL/M-118 N63-21920 22-27
BIOASTRONAUTICS IN X-20 AIRCRAFT - AEROSPACE MEDICINE N63-20559 20-32	THE THE STORY OF THE STORY OF STORY AND STORY AND STORY OF STORY O
XC-142 V/STOL AIRCRAFT REVIEW OF STRUCTURAL DYNAMIC CHARACTERISTICS OF THE XC-142A AIRCRAFT M63-21839 22-04	YAGI ANTENNA SELF ERECTING FLEXIBLE FOAM STRUCTURES FOR SPACE ANTENNAS - RECOVERY AND STRESS-STRAIN PROPERTIES - VACUUM AND SOLAR RADIATION EFFECTS NASA-TN-0-1610 N63-13187 07-08
XENON REACTOR TECHNOLOGY - RADIOGRAPHING MELDS - STEAM GENERATOR STABILITY - IRRADIATION OF FUELS MAPD-8T-27 N63-11937 04-23	PATTERN SHAPING FOR LOW SILHDUETTE YAGI ANTENNAS AFCRL-63-102 N63-16340 13-15
CALCULATION OF COMPLEX NATURAL MODES FOR SPATIAL XENON GSCILLATIONS AND COMPARISON WITH SIMPLE APPROXIMATION N63-11946 04-20	DIRECTIONAL CHARACTERISTICS AND INPUT IMPEDANCE OF TWO-ELEMENT YAGI ANTENNA IN PARALLEL PLATE REGION - THEORY AND EXPERIMENT AFCRL-63-107 N63-18005 16-08
APPLICATION OF FIELD-ION EMISSION TO ELECTROSYATIC ROCKET ENGINES - IONIZATION LIFETIMES OF HYDROGEN, LITHIUM, SDDIUM, RUBIDIUM, CESIUM, AND XENOM	MAVE PROPAGATION ALONG INFINITE YAGI ANTENNA IN PARALLEL PLATE REGION AFCRL-63-108
NASA-TH-D-1563 M63-12195 05-30 SOLAR ORIGIN OF ATMOSPHERIC AND METEORIC XENON	YANG-MILLS QUANTUM CROSS-SECTIONS OF YANG-MILLS QUANTA & APPLICATION
DETERMINED BY ISOTOPIC ANALYSIS NASA-TN-D-1685 NASA-TN-D-1685 NASA-TN-D-1685	OF GENERALIZATION OF ELECTROMAGNETIC FIELD TO ELEMENTARY PARTICLE PHYSICS & QUANTUM FIELD THEORY AFOSR-62-120 N63-20784 21-23
SOLAR ORIGIN OF ATMOSPHERIC XENON - NEUTRON IRRADIATION OF SOLAR XENON N63-18685 17-29	HYPERSONIC SHOCK LAYER AT LOW REYNOLDS
ATOMIC MOMENTUM TRANSFER COLLISION PREQUENCY IN DECAYING PLASMA IN HELIUM-KRYPTON AND HELIUM-XENON MIXTURES	NUMBER - THE YAMED CYLINDER ARL-62-453 N63-12026 05-11
XENON FLASHTINE THERMAL PROPERTY DETERMINED BY	USE OF MATHEMATICAL MODEL TO DETERMINE EFFECT OF MONEINEAR YAM-INDUCED ROLLING AND SIDE MOMENTS ON STABILITY OF A BOMB SAD-102 N63-12607 06-02
RADIATION MEASUREMENT THE PROPERTY AND ADDITION AND ADDITION OF THE PROPERTY ADDITION OF THE PROPERTY AND ADDITION OF THE PROPERTY ADDITION OF THE PROP	PLASTICS RESERRORS ISOTOPES, NAMER R-RAY SERSON.

11-09

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18-23

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ON

ORY -23

-11

ON

-62

PRESSURE DISTRIBUTION ON X-19 MASA-TH-X-275	N63-12646 06-04	THEORETICAL DENSITY
ANALYSIS OF MA-T AND MA-8 FL SPLASH POINT, RETROROCKET YAI UNCERTAINTY	GHT RECOVERY ZONE - A ANGLE AND ZONE OF N63-14958 11-20	YTTERBIUM LOW TEMPERATURE SPECIFIC H YTTERBIUM AND NEODYNIUM GA
PHR-TH-63-3	N63-14958 11-20	CE-TO-CHEET END
DRAG COEFFICIENTS OF BODIES (VARIOUS HEAD FORMS IN SUPERCY VARIOUS ANGLES OF YAW	OF REVOLUTION WITH IVITATING FLOWS AT N63-18102 16-02	EFFECTS OF MINOR ADDITIONS MOLYBDENUM
WIND TUNNEL STABILITY TESTS (MODEL WITH FIXED & FREE SPINN NORMAL FORCE OF DISTRIBUTION NOLTR-63-79	ING TAIL ASSEMBLIES - - PITCHING AND YAW	THERHODYNAMICS OF YTTRIUM CARBONYL AT HIGH TEMPERATU BM-RI-6155
YAW & PITCH ANGLE TRANSDUCER LABORATORY TESTS AT TRANSONIO	- WIND TUNNEL &	ABUNDANCES OF THE FOURTEEN PLUS YTTRIUM AND SCANDIUM GA-3961
SPEEDS NASA-TM-X-50866	N63-22196 23-02	SPIN WAVE SPECTRA OF YTTRE
YEAST	Hallow Tourist Andrew	
RADIOPROTECTIVE AGENTS - DEPO RIBONUCLEIC ACID EFFECT ON RA TISSUE CULTURE	DIATED HUMAN CELLS IN	YTTRIUM BEHAVIOR IN RARE-E AND EFFECT OF SEQUESTRANT BM-RI-6242
SAM-TDR-62-85	N63-13749 08-16	RARE EARTH, YTTRIUM, AND S
EFFECT OF SPACE FLIGHT FACTOR		METEORITIC AND TERRESTRIAL GA-4221
CARDIALINITED NOT HOTTANDA	DOOM! YIIVASE DASS	ABUNDANCE OF RARE-EARTH EL
YIELD POINT YIELD POINT RETURN AND MODULU ARC-CAST AND POWDER-METALLURG ASD-TOR-62-859	SICAL HOLYBDENUM	YTTRIUM IN SOLAR SYSTEM - EARTH CRUST GA-3859
INITIAL YIELDING AND FRACTURE	IN NOTCHED SHEET	ALLOYS AND DIFFUSION COUPL WITH GROUP V AND VI REFRAC SOLUTIONS
YIELD POINT IN ZIRCALOY-2 AT BY TENSILE STRENGTH, INTERNAL ELECTRON MICROSCOPY		ASD-TDR-63-204
BMI-1616 5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	N63-13574 08-18	DIRECTION OF WACHERING WILLS
TEMPERATURE EFFECT ON MICROY! PRESTRAINED MAGNESIUM SINGLE		YTTRIUM CARBIDE SOVIET STUDIES ON METALLIC OF YTTRIUM CARBIDES, AND P
AND	WASA-TEN-STRUK	SOLID SOLUTIONS
AT VERTEX AND SIMPLY SUPPORTED DOMITT-1-22		CHEMISTRY OF YTTRIUM CARBI
EFFECT OF STATIC & DYNAMIC LO	ADING & TEMPERATURE	NA MILITARY ESTE MILITA - S
ON YIELD STRESS OF IRON AND P AND COMPRESSION - STRUCTURAL	ILD STEEL IN TENSION	YTTRIUM COMPOUND FERROMAGNETIC RESONANCE AN IROM GARNET
COMPARISON OF DYNAMIC AND STA	TIC TEST RESULTS FOR	HDL-TR-1143
YIELD STRESS OF STEEL GUN TUE RATES - DYNAMIC TESTING APPAR	ES AT HIGH LOADING	NUCLEAR THERMIONIC EMITTER CARBIDES AND EUROPIUM AND GEST-2009
WIELD BEHAVIOR OF BOUNESWEETIN	A THE MICH TIM	YTTRIUM METAL HALIDE PREPA
	N63-16727 14-18	REDUCTION BN-RJ-6259
TENSION YIELD POINT OF DISLOC OF IMPURITY ATOMS NASA-CR-50498	N63-18179 16-33	YTTRIUM-IRON GARNET /YIG/ CRY SPIN NAVE SPECTRA OF YTTRI
TIME CYNAC-YOU	NASE-114-9-100	GARNET DAS DES SECTIONS &
BUCKLING OF CLOSED SHELLS OF YIELD STRENGTH EFFECTS ON BUC R-63-4		FERROMAGNETIC RESONANCE AN IRON GARMET HDL-TR-1143
STRAIN RATE AND TEMPERATURE E TOUGHNESS, CRACK FORMATION, A NOTCHED AND UNNOTCHED MILD ST	ND YIELD STRENGTH OF	YTTRIUM IRON GARMET /YIG/ BAND PASS FILTER - WEDGE L W-J-63-609R10
NRL-5776	N63-15366 12-18	COLOR OF STREET, BUILDING VICE
YO-YO DEVICE STRETCH YO-YO THEORY AND SATE	LLITE SPIN REDUCTION	PATRIUM IRON GARNET /YIG/ BAND PASS FILTERS W-J-63-609R15
NASA-TH-D-1676	N63-14404 10-29	MAGNETIC RESONANCE IN STRO
DYNAMIC TESTS OF STRETCH VO-Y	0 DE-SPIN SYSTEM N63-21345 21-32	SYSTEM - YTTRIUM-IRON GARK
		NAME OF TAXABLE PARTY.

N63-13437 08-33 EATS OF VITRIUM, ERBIUM, LLIUM GARNETS N63-19420 19-18 OF YTTRIUM TO N63-11887 04-18 HETAL AND IRON PENTA-RES 963-12176 05-18 RARE EARTH ELEMENTS IN METEORITES N63-14103 09-29 UH- AND GADOLINIUM-IRON N63-15786 13-23 ARTH-AMINE EXTRACTION N63-16583 14-07 CANDIUM ABUNDANCES IN N63-16779 14-12 EMENTS, SCANDIUM, AND N63-16885 14-18 ES OF YTTRIUM & SCANDIUM TORY ELEMENTS - SOLID N63-10627 17-10 HEATS OF YTTRIUM, ERBIUM, ILLIUM GARNETS M63-19420 19-18 COMPOUNDS - CHEMISTRY LASTIC DEFORMATION OF N63-12230 05-07 N63-12231 05-07 D RELAXATION IN YTTRIUM N63-18883 18-25 S OF URANIUM AND THORIUM YTTRIUM HEXABORIDES , N63-19259 16-23 RATION BY METALLOTHERNIC M63-19601 19-07 124 1032 - Ch STAL UN- AND GADGLINIUM-IRON N63-15786 13-23 D RELAXATION IN YTTRIUM N63-18883 18-25 ELECTRONICALLY TUMABLE DADED N63-20989 21-09 ELECTRONICALLY TUNABLE M63-21016 21-09 HGLY COUPLED DIPOLE YTTRIUM OXIDE ANT BARRIE SAVIE -

HIGH TEMPERATURE HEAT CONTENTS AND ENTROPIES OF SESQUIOXIDES OF ERBIUM, HOLHIUM, THULIUM, AND

YOUNGS MODULUS
ISOTROPIC ELASTIC MODULUS OF MAGNESIUM OXIDE AT

SH-RI-6175	N63-12780	06-18	DIELECTROPHORETIC PROPELLANT ORIENTATION IN GRAVITY N63-10381	
INTERFEROMETRIC MEASUREME OF OXIDES OF YTTRIUM, CER		NSION	EXPULSION OF LIQUID PROPELLANT FROM TANK IS	A 142 39
EUROPIUM, AND DYSPROSIUM BM-RI-6180	N63-13148	07-23	SSD-TDR-62-172 N63-12843	01-56
HIGH TEMPERATURE SPECTRAL SAMARIUM, GADOLINIUM, ERE	EMISSIVITY OF YTT	RIUM.	MASS OF LIQUID PROPELLANT WITHIN SPACECRAFT PROPELLANT TANK SUBJECTED TO ZERO GRAVITY NASA-TN-D-1571 N63-13303	
15-578 YUKAWA POTENTIAL	over to ammigration	mil so	HEMODYNAMIC RESPONSE TO ZERO GRAVITY N63-14922	11-16
PHYSICAL INTERPRETATION OF THE DIRAC EQUATION FOR ST POTENTIALS	RONGLY COUPLED YUK	AWA	PILOT AND CONTROL DISPLAY SYSTEM TO FLY C- KC-135 AIRCRAFY IN KEPLERIAN TRAJECTORY TO	
JPL-TR-32-341		01-23	ZERO-GRAVITY FLIGHT CONDITIONS AMRL-TOR-63-11 N63-15353	12-04
Z	YOU ASSUME THE R		LINEAR APPROACH TO DYNAMICS OF FLUIDS AT ZI	ERO
Z-FUNCTION SOLUTIONS FOR ATMOSPHERE ENTRY FROM EQU		DURING	NSL-63-21 N63-17210	15-11
ROTATING PLANETS NASA-TN-D-1555	N63-12686	06-29	ANIMAL STUDY - RAT BEHAVIORAL RESPONSE TO I	EVALUATE
10-PET-MERINDORN	The latter delice?		NADC-MA-6303 N63-17329	15-16
Z-MODE SPACE RADIO PROGRA AFCRL-62-1059	M N63-12146	05-05	PROPULSION AND CONTROL BELT FOR ASTRONAUT MANEUVERING IN ZERO GRAVITY	79449 70 13 14
ZUEMAN EFFECT	NETTE AFFORMANCE -		D7123-953002 N63-18246	1/1/2
ZEEMAN PHENOMENON AND MAG CLEAVAGE OF SPECTRAL LINE JPRS-17398		05-23	ZERO GRAVITY INDOCTRINATION FOR GEMINI/APO ASTRONAUTS AMRL-MEMO-P-31 N63-19003	
CROSS RELAXATION IN NON-Z	4501		CORIOLIS EFFECT IN ZERO-GRAVITY RESEARCH A	
UTILIZATION IN PARAMAGNET AF-101			MRL-MEMO-P-9 N63-19010	18-04
STUDY OF NUCLEAR ZEEMAN E	FFECT IN GOLD-197 N63-15614	12-25	HUMAN LOCOHOTIVE PERFORMANCE IN ZERO GRAVII NEW TYPE SHOE FOR SPACE SUIT AMRL-MEMO-P-23 N63-19093	
ABSORPTION COEFFICIENT OF	THE STREET	FFWAN	FLUID EXPULSION SYSTEMS FOR LIQUID PROPELLY	
EFFECT WITH ARBITRARY DIR NASA-TT-F-110			ROCKET ENGINE PROPELLANT TANKS AT ZERO GRAI RTD-TOR-63-1048 N63-19447	
ZEMER DIGOE HIGH CAPACITY SEALED NICK CONTROLLED CHARGING CYCLE	USING ZENER DIODE	09-06	ZERD-GRAVITY POSITIVE EXPULSION TECHNIQUES METALLIC DEVICES FOR PROPELLANT TRANSFER NASA-CR-50774 N63-19964	19-06
	N63-14152	09-06	PHYSIOLOGICAL EFFECT OF PROLONGED WEIGHTLES	SSNESS -
ZENER EFFECT IN ALLOYS - STRESS-INDUCED ORDERING O			ZERO-GRAVITY - PATHOPHYSIOLOGY OF DISUSE AMRL-TDR-63-3 N63-21301	21-16
STRAIN, AND RELAXATION ST		06-18	CENTAUR PROJECT - ZERO-G PROBLEM - LABORATO AIRCRAFT AND BALLISTIC MISSILE TESTS	DRY,
STUDY OF NUCLEAR ZEEMAN E	FFECT IN GOLD-197		NASA-CR-51278 N63-21913	22-33
UCRL-10649		12-25	ZERO LIFT VISCOUS EFFECTS ON ZERO-LIFT DRAG OF SLENDI	ER BLUNT
ELECTROCHEMICAL AND PHYSI			CONES AEDC-TDR-63-35 N63-13658	08-11
NASA-CR-50566	N63-18360	17-26	DESIGN OF WING-BODY COMBINATION OF LOW ZERO	-LIFT
SORPTION OF SULFUR, PHOSP		8Y 24-19	DRAG RISE AT TRANSONIC SPEED ARC-R6M-3279 N63-13802	09-02
ZERO CROSSING	N63-23425	24-19	BODIES OF REVOLUTION IN FREE FLIGHT - ZERO- DRAG DATA	-LIFT
DIGITAL TECHNIQUES FOR STI		SSING	MASA-TR-R-100 N63-14871	11-02
DENSITY AF-102	N63-14660	10-09	ZERO-LIFT DRAG AT SUPERSONIC SPEEDS FOR SYMMETRICAL SLENDER WING WITH ROUGHNESS BAI ARA WIND TUNNEL NOTE-40 N63-17578	
ZERO-CROSSINGS, PEAKS AND RANDOM RESPONSES OF NONLIS		ES OF	SLENDER, AXISYMMETRIC POWER BODIES HAVING	
2-15 1601-68	N63-20104	20-23	ZERO-LIFT DRAG IN HYPERSONIC FLOW DI-82-0275 N63-20314	
ZERO DRIFT ELECTRICAL-RESISTANCE STRI RESPONSE, HYSTERESIS, STRI ZERO DRIFT & RESISTANCE A'	AIN SENSITIVITY, CR CRYOGENIC TEMPERA	TURES	SLENDER, THO-DIMENSIONAL POWER BODIES HAVI MINIMUM ZERO-LIFT DRAG IN HYPERSONIC FLOW DI-204-24 N63-20424	
WEIGHTLESS MAN - SINGLE IN ORBITAL WORKERS	MPULSE TRAJECTORIES		ZERO-YELOCITY CURVE THACE BODY PROBLEM ZERO VELOCITY CURVES - I TWO CENTER PROBLEM BY GRAPHICAL AMALYSIS - GUIDANCE SYSTEMS N63-10695	
AMRL-10K-62-103	MU3-10130	41-36	TA WITHE MULE BOOK OF BUJUOUR SETTALY STADE	1507

ZINC OXIDE
PHOTOCONDUCTIVITY OF SEMICONDUCTORS - ZINCTELLURIUM AND ZINC OXIDE N85-11970 05-25

RO 1-26 RO 7-26

7-15 1-16 AND 2-04

5-11 JATE -16

-14

-14 FT -04

-14

-27

-06 5 --16

-33 UNT -11 r -02

-02

-03 IH -02

-02

29

DISLOCATION MOBILITY IN ZINC SINGLE CRYSTALS N63-11599 04-18	ENERGY CONVERSION OF SEMICONDUCTOR ELECTRODES FOR FUEL CELL APPLICATIONS - LITHIATED MICKEL OXIDE, ZINC OXIDE, ANTHRACENE, & PHEMANTHREME DATA ASD-TDR-62-09 N63-16113 13-25
DIFFRACTION OF SLOW ELECTRONS IN GRAPHITE, ZINC AND ALUMINUM NOTS-TP-2984 04-25	ZINC OXIDE VAPORIZATION AND THERMODYNAMIC PROPERTIES N63-17156 15-18
ANALYSIS OF FATIGUE PROCESS IN SINGLE CRYSTALS OF IRON AND ZINC N63-11912 04-18	CONVERSION OF ISOPROPYL ALCOHOL TO ACETONE ON
NONELASTIC STRAIN RECOVERY IN ZINC SINGLE CRYSTALS N63-12615 06-18	CHEMISTRY 16-07
DEVELOPMENT OF SEALED SILVER OXIDE-ZINC SECONDARY BATTERIES ASD-TDR-62-668 N63-12709 06-06	MECHANISM OF PHOTOSENSITIZED POLYMERIZATION OF METHYL METHACRYLATE AT ZING OXIDE CATALYTIC SURFACES - INORGANIC CHEMISTRY N63-17978 16-07
PRESSURE DEPENDENCE OF THE ETTINGSHAUSEN-NERNST EFFECT AND THERMOELECTRIC POWER IN ZINC WITH SOLID HYDROGEN AS PRESSURE TRANSMITTING MEDIUM	EFFECTS OF AMIDES ON PHOTOCHEMICAL PROCESSES AT ZINC OXIDE SURFACES - INORGANIC CHEMISTRY N63-17979 16-07
AROD-1579-10 N63-14054 09-23 CELL DEVELOPMENT AND TESTS OF HERMETICALLY SEALED ZINC-SILVER OXIDE SECONDARY BATTERY FOR AEROSPACE APPLICATION N63-14154 09-06	INORGANIC CHEMISTRY - IMFRARED SPECTROSCOPIC STUDIES OF EFFECTS OF AMIDES AND MITROGENOUS RESIDUES ON PHOTOCATALYTIC ZINC OXIDE N63-17980 16-07
REVIEW OF LEAD ACID, NICKEL-CADMIUM, AND ZING- SILVER OXIDE SECONDARY BATTERIES - OPERATION, MAINTENANCE AND DESIGN N63-14155 09-06	INORGANIC CHEMISTRY - PHOTOELECTRIC EFFECTS AT ZINC OXIDE ELECTRODES N63-17901 16-07
CHEMICALLY-HEATED AUTOMATICALLY ACTIVATED N63-14159 09-06	ZINC SELENIDE CADMIUM SULFIDE SEMICONDUCTOR DEVICES - DIFFUSION OF ALUMINUM INTO ZINC SELENIDE CRYSTALS
ZINC-SILVER OXIDE BATTERIES TESTED FOR AEROSPACE APPLICATIONS N63-14160 09-06	AFCRL-69-120/A/ N63-18913 18-25 ZINC SULFIDE
ELECTROCHEMICAL SYSTEM - ZINC-SILVER OXIDE NONRESERVE BATTERY N63-14161 D9-06	CRYOGENICS AND MAGNETO-OPTICS - CADMIUM SULFIDE AND ZINC SULFIDE ARL-62-433 N63-11539 03-23
ELECTRON TRANSPORT PHENOMENA IN ZINC AND BISMUTH AT LIQUID HELIUM TEMPERATURES - HALL EFFECT STUDY ARDD-1579-11 N63-14452 10-23	HEXAGONAL HOLLOW ZINC SULFIDE CRYSTALS DEVELOPED BY HEATING PONDERED ZINC SULFIDE SHIR-62-7, APPENDIX N63-14050 09-23
EFFECTS OF ULTRASONICS ON PLASTICITY OF METALS - CADMIUM, ZINC CRYSTALS N63-17975 16-18	CRYSTAL FIELD THEORY AND LUMINESCENCE IN ZINC SULFIDE - PROBABILITIES OF RADIATIVE AND NON-
DELAYED FRACTURE OF ALUMINUM ALLOYS BY LIQUID ZINC	RADIATIVE ENERGY LEVEL TRANSITION H63-14421 10-25
AMALGAN FA-R-1677 N63-19662 19-18	REFLECTION SPECTRUM OF CUBIC ZINC SULFIDE IN THE INTERBAND TRANSITION REGION 4000-400A - PHOTOM-
LIQUID METAL EMBRITTLEMENT OF ZINC MONOCRYSTALS BY MERCURY RIAS-TR-62-19 N63-21812 22-18	ELECTRON INTERACTIONS N63-15288 12-23 ATMOSPHERIC TRACER TECHNIQUE USING ZINC SULFIDE
ELECTROPLATING WITH ZINC	AND FLUDRESCENCE HN-70892 MATELY FOR ASIMEMOTALISM N63-15532 AN12-21
BH-RI-6301 23-18 ZING ALLOY	ANOMALOUS PHOTOVOLTAIC EFFECT IN ZINC SULFIDE LNSC-6-90-63-20 N63-17127 15-25
THERMODYNAMICS OF SILVER-ZINC ALLOY IER REPR7-63 N63-13057 07-23	LUMINESCENCE IN VANADIUM-ACTIVATED ZINC SULFIDE NG3-22256 23-19
FATIGUE OF COPPER-ZINC ALLOYS AT 100-DEG K ASD-TOR-63-252 N63-17021 15-33	ZINC TELLURIDE TO STRAIG AL SALESTAN MOTTAKED BUT
FRACTURE TOUGHNESS OF ALUMINUM ALLOYS WETTED WITH LIQUID ZINC AMALGAM	M63-20286 20-25
R-1678 N63-19438 19-18 SILVER ADDITION EFFECT ON AGING OF ALUMINUM-ZINC-	ZINC TUNGSTATE MASER PROPERTIES OF CHRONIUM IN ZINC TUNGSTATE FOR L-BAND AMPLEFICATION M69-29528 24-25
MAGNESIUM ALLOYS ARL/MET-49 M63-19908 19-18	ZIRCALOV MSTEVE HEGYEG-MUSICIARES NO JATEVAS
CORROSION OF HIGH STRENGTH ALUMINUM-COPPER AND ALUMINUM-ZINC-MACNESIUM ALLOYS	MONITORING OF ZIRCALOY-2 PRESSURE TUBES OF THE PATR REACTOR FOR HIGH TEMPERATURE AND RADIATION EFFECTS
ARL/MET-47 N63-19933 19-18	HN-74731, PT. II N63-11005 04-23
STRUCTURE OF MAGMESIUM-THORIUM-ZINC-ZIRCONIUM ALLOY - EFFECT OF TEMPERATURE, OXIDATION AND HYDROGENATION N63-20695 21-18	POSTIRRADIATION EVALUATION OF ZIRCALOY-2 PLUTONIUM RECYCLE TEST REACTOR PRESSURE TUBES - PART I HM-73698, REV. N63-11974 05-17
X-RAY PRODUCED VANADIUM IONS FROM VANADYL IONS IN SINGLE CRYSTALS OF ZINC AMMONIUM SULFATE	CREEP PROPERTIES OF ZIRCALOY-2 FOR DESIGN APPLICATION MM-75367 MM-75367 MM-75367
THE PROPERTY OF THE PERSON OF THE PERSON OF THE PARTY OF THE PROPERTY OF THE PERSON OF	IRRADIATED ZIRCALOV PRESSURE TUBE FOR WOCLEAR
PHOTOCONDUCTIVITY OF SEMICONDUCTORS - ZINC- TELLURIUM AND ZINC OXIDE N85-11970 05-25	HN-67949-REY N63-12947 07-17

Z

	YIELD POINT IN ZIRCALOY-2 AT ELEVAT BY TENSILE STRENGTH, INTERNAL-FRICT ELECTRON HICROSCOPY BMI-1616			HEAT TREATMENT, TENSILE PROPERTIES, AND CORR RESISTANCE OF ZIRCONIUM ALLOY FOR USE AS CLA IN MATER-COOLED NUCLEAR REACTOR HM-71023	
	HECHANICAL PROPERTIES OF ZIRCONIUM	ALLOYS -		RECOVERY & RECRYSTALLIZATION OF ZIRCONIUM AL	LOVE
	ZIRCALOY 2 - NIOBIUM OXIDE ALLOY		12-18		12-18
	EFFECT OF HIGH BORON BURNUPS ON BOR	OM CARRED		ZIRCONIUN ALLOYS - USE AS CLADDING MATERIALS	THE
	AND ZIRCONIUM BORATE DISPERSIONS IN OXIDE AND ZIRCALOY-2			WATER COOLED REACTORS EUR-86.0 N63-17393	
	BMI-1627 N6	3-15969	13-17	ZIRCONIUM ALLOYS FOR STEAM SERVICE NUCLEAR	11.13
	IRRADIATION OF ZIRCALOY-2 CLAD URAN SODIUM-POTASSIUM-FILLED CAPSULES - HW-67072	FUEL ELEM		REACTORS - CORROSION TESTING - FABRICATION	15-18
				CORROSION MECHANISM OF ZIRCONIUM AND ITS ALL	OYS -
	NEUTRON IRRADIATION AND COLD WORK E ZIRCALOY-2 CORROSION AND HYDROGEN P HW-76636 N6			DIFFUSION OF DAYGEN IN ZIRCONIUM DIOXIDE GEAP-3999 N63-17460	754 1910
	COLD WORK AND NEUTRON IRRADIATION E TENSILITY, PLASTICITY, AND FRACTURE			METAL CORROSION OF ZIRCONIUM ALLOYS IN WATER STEAM AT HIGH TEMPERATURE AND PRESSURE AECL-1724 N63-17810	1116113
	ZIRCALOY-2 Tall and a star para de la Maria della de la Maria della dell	3-19216	18-18	IN-PILE RADIATION CORROSION EXPERIMENTS WITH ZIRCONIUM, TITANIUM, AND STEEL ALLOYS IN URA	
	INTERNAL ZIRCONIUM HYDRIDE FORMATIO FUEL ELEMENT CLADDING UNDER IRRADIA		ALOY	SULFATE SOLUTIONS AT 280-DEG C	18-18
		3-19797	19-07	STRUCTURE OF MAGNESIUN-THORIUN-ZINC-ZIRCONIU	N T
21	ZIRCONTUM - CHEMICAL AND PHYSICAL M	ETHODS OF	10 TO TO	ALLOY - EFFECT OF TEMPERATURE, OXIDATION AND HYDROGENATION N63-20695	ko uli
	ANALYSIS AEC-TR-5373 N6	3-11027	03-18	HIGH TEMPERATURE AND STRENGTH REFRACTORY ALL	
	SPECTROPHOTOMETRIC DETERMINATION OF IN THORIUM-ZIRCONIUM ALLOYS NO	ZIRCONTU		SHEET MATERIAL OF TITANIUM, NIOBIUM, MOLYBDE ZIRCONIUM METALS N63-20971	21-10
	to an Peter lates and occupy of the end of the		M NO	ZIRCONIUM BASE ALLOY FOR NUCLEAR FUEL CLADDI STEAM ENVIRONMENT	NG IN
	THERMAL EXPANSION OF ALPHA-ZIRCONIU CRYSTALS - ANISOTROPIC STRUCTURE ANL-6591 M6		07-18	GEAP-4211 N63-21259	21-10
		Inforciona III	9.00	ROLE OF OXIDATION RATE IN HYDRIDING OF ZIRCO	MIUM
	MACHINING OF REFRACTORY MATERIAL, T. MIOBIUM AND ALLOYS, RESIN, ZIRCONIU	H OXIDE A	ND .	ALLOYS IN GAS ATMOSPHERES CONTAINING HYDROGE HW-76562, REV. N63-22026	
	ZIRCONIUM AND ALUMINUM OXIDE COATIN ASD-TR-7-532A/VII/ N6	GS 3-14884	11-18	HYDROGEN OVERVOLTAGE & ELECTROCHENICAL POTEN	TIALS
	CORROSION MECHANISM OF ZIRCONIUM AN		ovs -	OF ZIRCONIUM & ZIRCONIUM INTERMETALLICS GEAP-4192 N63-22217	23-18
	DIFFUSION OF OXYGEN IN ZIRCONIUM DI GEAP-3999 No		15-18 Z	IRCONIUM CARBIDE URANIUM AND ZIRCONIUM CARBIDE CATHODES FOR	43361
	AQUEOUS CORROSION OF ZIRCONIUM SING KAPL-2257 N6	LE CRYSTAL 3-17515		THERMIONIC SPACE REACTORS - VAPOR LOSS, DIFF RATE AND THERMOCONDUCTIVITY	18
	PHASE DIAGRAM RELATIONSHIPS FOR TIT	ANTUH-		GA-2670 N63-13785	08-06
	ZIRCONIUN-OXYGEN SYSTEM ARL-63-104 N6	1.00.150	16-16	PYROCARBIDE	15
	CHEMICAL ANALYSIS - DETERMINATION D	F TRACE AN	ADUNTS	S-515 N63-13844	09-17
	OF ZIRCONIUM AND TITANIUM IN TUNGST		18-18	THERMODYNAMIC AND KINETIC DATA FOR DESCRIBING CHEMICAL PROPERTIES OF THE REFRACTORY MATERIZIRCONIUM AND HAFNIUM CARBIDES AND BORIDES	ALS,
	DEFORMATION THINNING IN PLASTIC DEF			ASD-TOR-62-204,PT.II N63-19471	
	FRACTURE, AND RECRYSTALLIZATION OF NO.	21RCONEUM 3-19790		THERMAL EXPANSION AND ATOMIC VIBRATION AMPLE	
	HYDROGEN OVERVOLTAGE & ELECTROCHEMI		TIALS	FOR TITANIUM CARBIDE, TITANIUM NITRIDE, ZIRC CARBIDE, ZIRCONIUM NITRIDE, AND PURE TUNGSTE	M
	OF ZIRCONIUM & ZIRCONIUM INTERMETALI GEAP-4192 No.		23-18	C-17 N63-19922	19-18
	CAYSTAL OF ZIRCONIUM-CXYGEN SYSTEM	390.18	Z	IRCONIUM COMPOUND EFFECT OF HIGH BORON BURNUPS ON BORON CARBIO	AH - US
	AN TOP A THE STATE OF THE STATE	3-23268	24-25	AND ZIRCONIUN BORATE DISPERSIONS IN ALUMINUM OXIDE AND ZIRCALOY-2	3-59
	EMERGY BAND CALCULATIONS FOR ZIRCON	1 UM-DXYGEN 3-23269		BHI-1627 N63-15969	13-17
**	ACONIUM ALLOY HIS TO POSTAUJAVE MOTT	-		HIGH TEMPERATURE HEAT CONTENT AND ENTROPY OF ZIRCONIUM FLUORIDE AND ZIRCONIUM SULFATE	10-00
	DESIGN OF SPECIFIC ZICONIUM ALLOY			BH-RI-5964(0) / PRICARILITY OF N63-17890 J	PHYSICAL STREET
	UPPER CRITICAL FIELD OF NIOBIUN-ZIRO	E suddish Seen	Dh. L	IRON, COBALT, AND NICKEL AS METALLIC BINDERS ZIRCONIUM DIBORIDE - MARDNESS, OXIDATION RAT	FOR AND
	NIOBIUM-TETANEUM ALLOYS	3-14201		MECHANICAL SHOCK RESISTANCE EVALUATIONS 8M-RI-6262	-X
	MECHANICAL PROPERTIES OF ZIRCONIUM	ALLOYS -		THERMODYNAMIC AND KINETIC DATA FOR DESCRIBIN	19
	ZIRCALQY 2 - NIOBIUM OXIDE ALLOY KAPL-2252 N6:	3-15404		CHEMICAL PROPERTIES OF THE REFRACTORY MATERI ZIRCONIUM AND HAFNIUM CARBIDES AND BORIDES ASD-TDR-62-204,PT-II	ALS
					. 11/6

2-18 YS -

2-18

5-18

5-18

5-18

ND. 5-18

3-18

-18

-18 IN -10

-18 LS

ON

-17

-18 ES LIM -18

-17

-07

SUBJECT INDEX	
ZIRCONIUM HYDRIDE PULSE HEATING OF ZIRCONIUM-URANIUM HYDRIDE	
NAA-SR-7398 N63-12155	05-19
PULSE HEATING OF MODIFIED ZIRCONIUM-URANIUM HYDRIDES TO DESTRUCTION	
NAA-SR-7736 N63-13034	07-26
NEUTRON THERMALIZATION - TRANSPORT THEORY SPECTRA OF ZIRCONIUM HYDRIDE AND POLYETHYL GA-3853 N63-18126	AND ENE 16-23
INTERNAL ZIRCONIUM HYDRIDE FORMATION IN ZI	
WAPD-TH-351 N63-19797	19-07
WATER REFLECTED, UNDERMODERATED, ZIRCONIUM CRITICAL ASSEMBLIES - SNAP PROGRAM NAA-SR-8490 N63-22971	
	23-23
ZIRCONIUM MITRIDE THERMAL EXPANSION AND ATOMIC VIBRATION AMP FOR TITANIUM CARBIDE, TITANIUM NITRIDE, ZI CARBIDE, ZIRCONIUM NITRIDE, AND PURE TUMGS C-17 N63-1929.	RCONIUM TEN
	19-10
ZIRCONIUM OXIDE DETERIORATION OF CALCIA-STABILIZED ZIRCONI REFRACTORY MATERIALS	A.
NASA-TN-D-1595 N63-10986	02-18
IRRADIATION BEHAVIOR OF ZIRCONIUM OXIDE-UR OXIDE FUELS N63-11940	
MEASUREMENT OF THERMAL DIFFUSIVITY OF MATE HIGH TEMPERATURES — CERAMICS, IRON, MOLYBD TITANIUM, ZIRCOMIUM OXIDE, AND ALUMINUM OX ASD-TOR-62-24	ENUM, IDE
METHOD FOR DETERMINATION OF FREE AND TOTAL TITANIUM CONTENTS IN ZIRCONIUM OXIDE-TITAN	IUM
COMPOUNDS ARL-63-13 N63-14624	10-07
CORROSION MECHANISM OF ZIRCONIUM AND ITS A	LLOYS -
DIFFUSION OF DXYGEN IN ZIRCONIUM DIOXIDE GEAP-3999 N63-17460	15-18
MATRIX AND COMPOSITE MATERIALS OF ZIRCONIU THORIUM OXIDE, AND MAGMESTUM OXIDE MITH TU PROTECTIVE COATINGS FOR THERMAL INSULATION	M OXIDE, NGSTEN -
PROTECTIVE COATINGS FOR THERMAL INSULATION NASA-CR-50877 N63-20259	20-19
LINER FOR EXTRUSION BILLET CONTAINERS - ZI	RCONTUM
ASD-TDR-7-945/1V/ N63-21703	22-18
HIGH TEMPERATURE SINGLE CRYSTAL OBSERVATION ORIENTATION RELATIONSHIP IN ZIRCONIA PHASE	N OF
TRANSFORMATION ATN-64/9236/-3 N63-22133	22-25
XENON-133 EVOLUTION FROM SLIGHTLY IRRADIAT	ED
WAPD-TH-313 N63-22673	23-23
THERMODYNAMIC PROPERTIES OF ZIRCONIUM OXID ARL-63-170 N63-23105	E 24-19
INFRARED ABSORPTION SPECTROSCOPY IN RESEAR	CH ON
HAFNIUM OXIDE AND ZIRCONIUM OXIDE ASD-TDR-63-789 N63-23663	24-18

MEANS OF PHASE CHANGE OF ZONAL FOURIER HARMONICS -ATMOSPHERIC ENERGETICS N63-14920 11-21 MEASUREMENTS BASED ON ZONAL HARRONIC AMALYSIS -RELATION OF EDDY TRANSPORT PROCESSES AND ENERGETICS TO ATMOSPHERIC EFFECTS AFCRL-63-628 N63-19554 19 N63-19554 19-21 ZONAL HARMONIC REPRESENTATION OF THE ATMOSPHERIC ENERGY CYCLE - REVIEW OF MEASUREMENTS M63-19566 19-21 S AURORAL ZONE S NULL ZONE ZONE MELTING
ZONE MELTING OF EUTECTIC-FORMING MIXTURES
ATN-64/9236/-2 M63-2126 M63-21261 21-19 ZOMING TECHNIQUE CHROMATIC ABERRATION IN A ZONED CYLINDRICAL MIRROR N63-20038 19-23 SCIENCE IN ARCTIC OCEAN BASIN - BOTANY, ZOOLOGY, HICROBIOLOGY, PHYSIOLOGY AND MEDICINE, AND ECOLOGY NAS-NRC-1086 N63-16837 14 N63-16837 14-16 ZPR-III REACTOR -III REALTON
SMALL, LIGHTMEIGHT URANIUM CARBIDE FUELED NUCLEAR
REACTOR MITH A BERYLLIUM REFLECTOR SURROUNDING
CORE - ZPR-III REACTOR ANL-6713 N63-19219 18-10 ZPR-VII REACTOR
CALCULATION FOR ZPR-VII LATTICE CRITICALITY
EQUATION WITH THORIA-URANIA FUEL IN HEAVY WATER
ANL-6661
N63-13606
09

ZODIACAL LIGHT
POLARIMETRIC OBSERVATION OF POLARIZATION OF ZODIACAL LIGHT
N63-14901

COMIUM TITANATE
THERMOCONDUCTIVITY AND EXPANSION OF BARIUM-LEADCALCIUM AND ZIRCONIUM TITANATES AND DEVELOPMENT OF
PROTOTYPE RADIAC CALIBRATOR FOR SHIPBOARD USE
N63-14264 10-23

THERMOCONDUCTIVITY AND EXPANSION OF BARIUM-LEAD-CALCIUM AND ZIRCONIUM TITANATES

N63-14266 10-18

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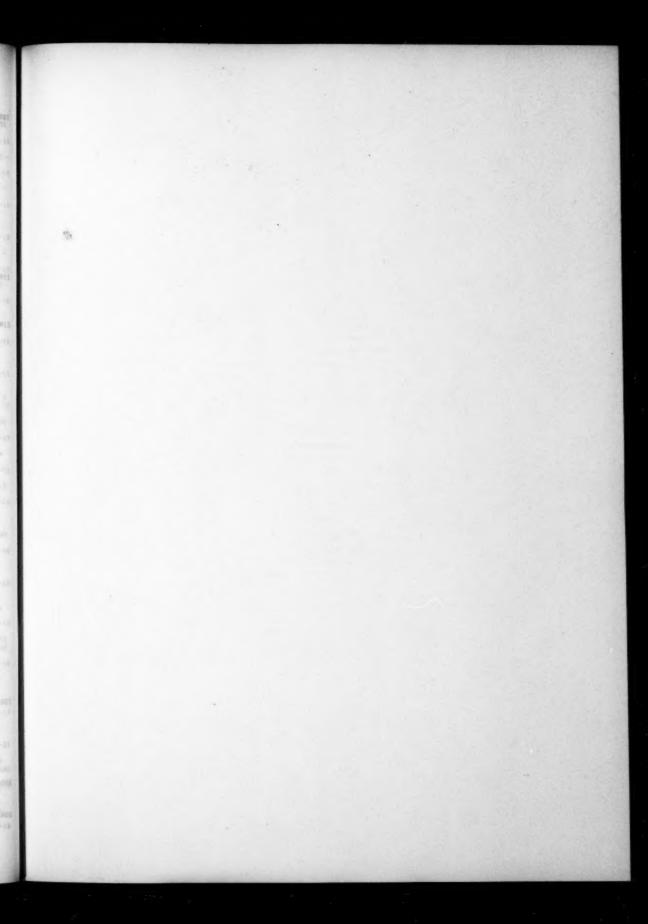
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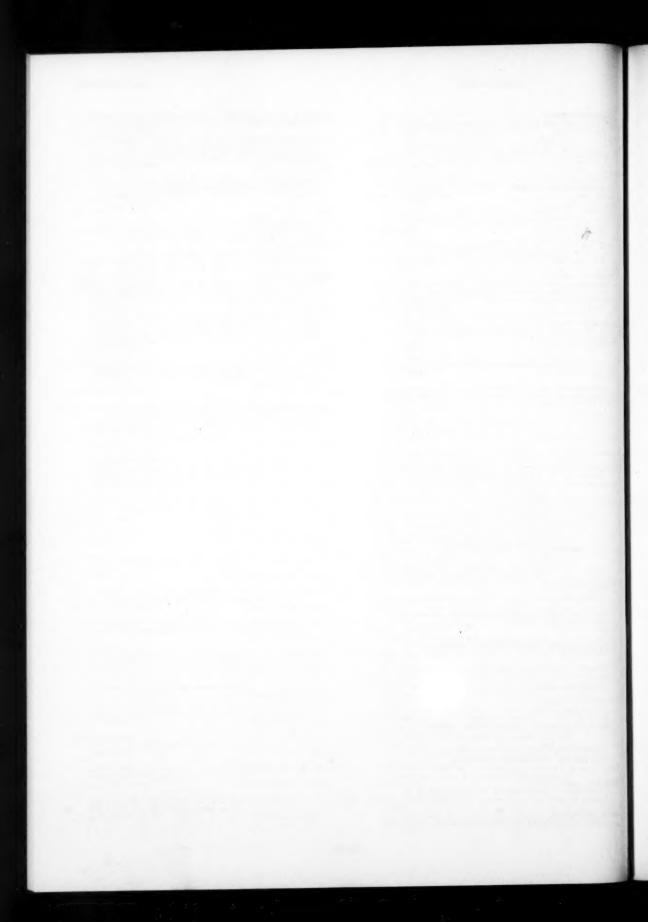
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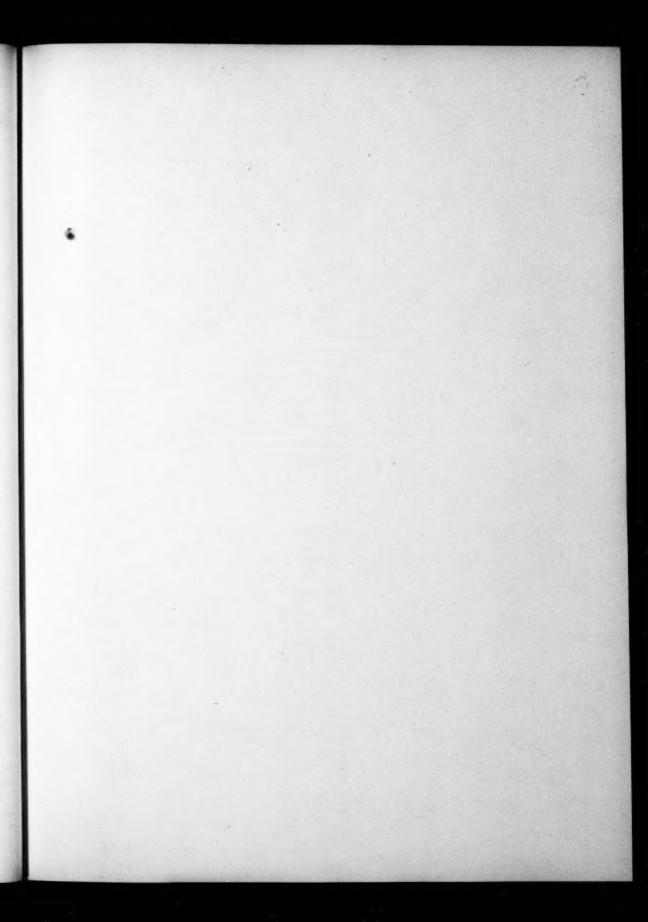
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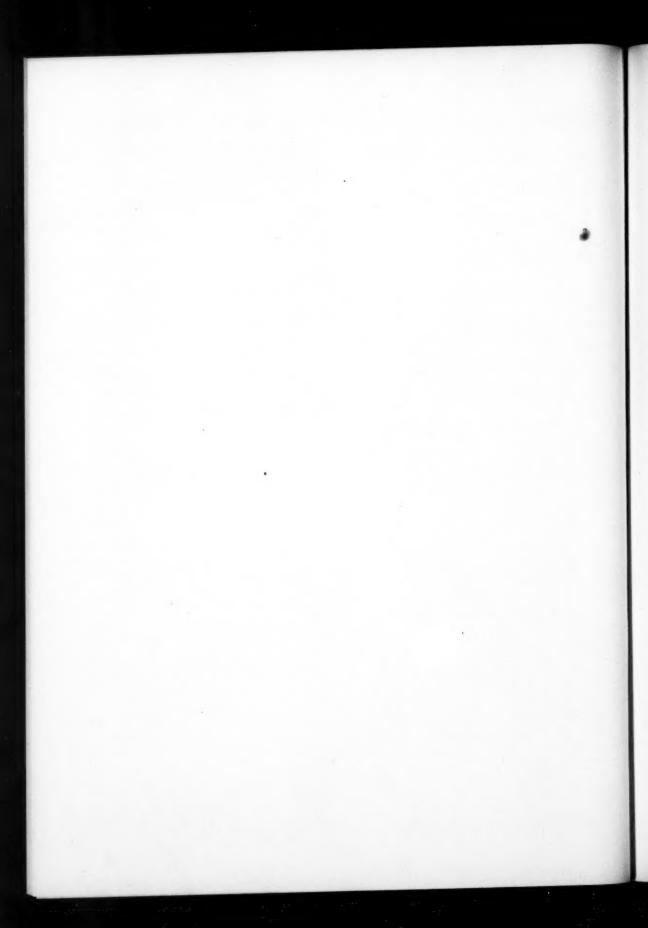
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